

**RCRA CORRECTIVE ACTIONS  
DESCRIPTION OF CURRENT CONDITONS AND INTERIM  
MEASURES REPORT**

**Former Hayes Lemmerz Site  
Ferndale, Oakland County, Michigan  
Site ID Number: MID 041 803 123  
Waste Data System Number: 395519**

**ATC Project Number: NPDAX19001**

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## **1.0 INTRODUCTION**

ATC Group Services LLC (ATC) has been retained by Axle Holdings 1, LLC (Client) to prepare a Description of Current Conditions (DOCC) and Interim Measures (IM) Report in accordance with the Resources Conservation and Recovery Act (RCRA) Corrective Action Plan (May, 1994) for the former Hayes Lemmerz Site located on W. Eight Mile Road, Ferndale, Oakland County, Michigan (Site). Corrective Action will be guided and implemented via a Corrective Action Consent Order that is being drafted by EGLE and will be negotiated between the two parties.

The Site is a former hazardous waste storage facility regulated under Part 111, Hazardous Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and its administrative rules (Act 451). The Site is identified with Environmental Protection Agency (EPA) ID Number MID 041 803 123. Under Part 111, an owner or operator of such facilities is subject to corrective action to establish environmental protection standards based on zoning and intended land use.

## **2.0 FACILITY DESCRIPTION**

### **2.1 Site Location Information**

The Site is located on W. Eight Mile Road in Ferndale, Oakland County, Michigan, on the north side of W. Eight Mile Road between Mitchelldale Avenue and Pinecrest Drive. The Site consists of approximately 34 acres. Refer to **Figure 1** in Appendix A for a Site Details Map.

### **2.2 Site and Vicinity General Characteristics**

The Site is located in an area characterized by commercial business, light industrial, and residential use located in the city limits of the City of Ferndale, at the southern border of Oakland County. The Site is zoned light industrial (M-1) according to the City of Ferndale online Zoning Map Application. The adjacent parcels to the west, north and east are zoned light industrial, and further outlined predominately residential with some commercial properties lining the major corridor to the south. Refer to **Figure 1** in Appendix A for a Site Details Map.

### **2.3 Current Use of Site**

The Site is currently formerly developed, partially graded, vacant land.

### **2.4 Intended Future Use of Site**

The intended use of the southern portion of the Site is for the construction of an additional manufacturing building for the western adjacent Detroit Axle operation.

### **2.5 Topographic Setting**

The Site is located in the west ½ of the southeast ¼ of Section 33, Township 1 North, Range 11 East, on the United States Geological Survey (USGS) 7.5 Minute Topographic Map, *Detroit, Michigan Quadrangle*, dated 1985. The Site is identified at approximately 665' above mean sea level. The topography across the Site and surrounding area is relatively flat with a gentle slope to the east. The Site location map is attached as in Appendix A as **Figure 1**.

### **2.6 Hydrogeologic Setting**

The Site is located in the Clinton River drainage basin (HUC8: 0409003) of the River Rouge, which discharges to Lake St. Clair. The nearest surface-water body to the Site is identified as a pond on the Woodlawn Cemetery approximately 5,160 feet east/southeast of the Site. No wetlands were identified on the USFWS National Wetlands Inventory for the vicinity of the Site.

The USDA NRCS Soil Survey map of the area identifies surficial soils at the Site as primarily Fortress Family loamy sand with 0 to 6 percent slopes, which typically formed in sandy human-transported materials on the near-shore slopes of water-lain moraines and are characterized as moderately well drained with very low runoff potential. The Michigan Department of Environment, Great Lakes and

Energy (EGLE) GeoWebFace database identifies the Site as lying within a lacustrine sand and gravel plain overlying Upper Devonian- aged Antrim Shale. The brown to black pyritic organic-rich shale is identified as 60 to 200 feet thick in the area, with the bedrock surface approximately 100 to 150 feet below grade. According to prior reports, Oakland County Health Department records indicate that a 560-foot deep well was installed at the Site by Corsault Well Drilling looking for a source of cooling water; however, the well was terminated in dry shale. While records of this well are not currently available, there are other wells in the general area that confirm the depth to bedrock and general lithology. ATC will submit a FIOA request for records of the well.

The nearest water-supply wells identified in the EGLE Wellogic database for the area consisted of a cluster of geothermal wells operated by the City of Ferndale at 222 East 9 Mile Road. Those wells are developed approximately 400 feet below grade, having encountered bedrock approximately 120 feet below grade. The wells are located approximately 1.6 miles to the northeast of the Site. There are no boring logs available for these wells, however the Wellogic Well Records do provide descriptions of the sand, clay, and shale (bedrock) units. Generally, the sand unit lays on top with a thickness of 10 feet; the clay unit resides below the sand unit and extends down approximately 115 feet to the bedrock; the bedrock is Shale and has a thickness of approximately 55 feet (Wellogic).

Based on review of soil boring logs for the Site from current and previous Site Investigations, the Southern portion of the Site contains native sand of various grain size to approximately 20 feet below grade. The sand layer is followed by a clay layer approximately 115 feet thick that extends to the bedrock. In certain areas up to five feet of discontinuous fill containing brick, concrete, and glass debris, in certain locations, overlies approximately 20 to 23 feet of loose native sand above clay that extends to bedrock. On the northern portion of the property, the native sand is interbedded with clay, silty clay, and sandy clay. Boring logs for the Site can be found in Appendix C of this report. Cross sectional maps can be found in Appendix A as **Figures 18-21**. These cross-sections will be the basis for the conceptual site model (CSM) as additional investigation is performed.

Groundwater generally is encountered between 8 to 11 feet below surface grade (bsg). Groundwater gradient maps completed for the April and June 2020 groundwater sampling events indicate groundwater flow direction to be toward the east-southeast and can be found in Appendix A as **Figures 10 and 11**, respectively.

Topographic maps from 1939 and 2019 show current and historical drainage patterns at the Site. Current and Historical drainage patterns at the Site are from the West portion of the Site to the East. The 1939 historical topographic maps was obtained from the USGS website and can be found as **Figures 23**. Current topography was measured during a recent survey and can be found as a part of **Figure 18**.

## 3.0 FACILITY BACKGROUND

### 3.1 General Site Information and History of Ownership

The Site occupies the northwest corner of the intersection of West Eight Mile Road and Pinecrest Drive. The Site was developed with a multi-building research and development facility for chemical additives for gasoline products from the 1930s until the 1980s, when manufacturing operations took over the facility until 2012. The buildings were demolished in 2012-2013. Various building plans identified up to 38 buildings or building wings at the Site over its history. Underground tunnels reportedly linked several of the southern buildings, and several of the buildings reportedly were bunkered with earthen mounds as protection in the event of explosions. The locations of known tunnels can be found in **Figure 1**, however the possibility remains that there are additional unmapped tunnels. Additional investigation will be required to determine the full extent and location of all the tunnels on-site. As additional information is identified our CSM and cross sections will be updated. Buildings were reportedly heated principally by natural gas central steam systems, as available, that also extended along the underground tunnels. Refer to **Figure 1** – Site Details Map in Appendix A for a depiction of current and former site features.

The Site has been developed since the 1930s until 2012 when demolition of the entire Site began. A summary of the former ownership at the Site is as follows:

- Ethyl Corporation from 1936 to 1987;
- CMI purchased the site through a holding company (TC Realty) in 1987;
- TC Realty changed name to HLI Realty (operating as Hayes Lemmerz International) in 1999;
- HLI Realty transferred to Cedan Holdings VI, LLC 2012;
- Cedan Holdings VI transferred to Pinecrest Holdings, LLC purchased May 4, 2016;
- Pinecrest Holdings, LLC entered into a Land Contract with Axle Holdings 1, LLC (for a 6 acre portion of the Site) and a Land Contract with Axle Holdings 2, LLC (for a 28 acre portion of the Site).

### 3.2 Historical Facility Operations

The Site contains approximately 34 acres and was formerly owned and operated by Ethyl Corporation (Ethyl). Historical operations at the Site by Ethyl included blending of fuels, foundry operations, service operations, maintenance operations, chemical storage, incineration, and laboratory testing from the 1930s until the 1980s. Subsequent manufacturing operations by CMI-Tech Center (after 1987), TC Realty, Inc. (in the early 1990s), and Hayes Lemmerz International (after 1999) included researching various casting and molding processes, integrity testing automotive parts, computer- aided product assembly and product testing, and other engineering and analysis testing. The Site is currently vacant following demolition activities that occurred between 2012 and 2013. Below is a summary of the former buildings and uses located on the Site:



| <b>Building ID</b> | <b>Description of Former Building Use</b>   |
|--------------------|---|
| A                  | Executive Offices, Printing, Cafeteria, Library, and Machine Shop                     |
| B                  | Experimental Operations, Machine Shop, Vehicle Servicing, and Ref. Technology         |
| C                  | Engine Research and Dynamometer, Fuel Testing, Control Testing                        |
| DA                 | Chemical Research, Executive Offices, and Patent Department                           |
| E                  | Office, Auto Application Department, and Large Engine Dynamometer Testing             |
| F                  | Maintenance, Pipe Shop, Carpenter Shop, Glass Blower Shop, and Manufacturing          |
| H                  | Fueling and Oil Blending  |
| J                  | Fuel Storage  |
| M                  | Chemical Development Lab, Heavy Equipment and Manufacturing                           |
| N                  | Chemical Storage  |
| O                  | Maintenance Storage   |
| Q                  | Guard Shack   |
| AL                 | Vehicle Fueling   |
| AN                 | Emissions Laboratory, Dynamometer Testing Area, Dipping Operations, and Manufacturing |
| AC                 | Active Metal Storage  |
| AH                 | Chemical Engineering Products   |
| L                  | Bulk Chemicals  |
| U                  | Chemical Res. And Pilot Plant   |
| AF                 | Drum Storage  |
| AJ                 | Can Storage   |
| AB                 | Can Storage   |
| R                  | Fleet Building  |
| K                  | Chemical Supplies Storage   |
| P                  | Chemical Storage  |

### 3.2.1 Former Waste Generation

Ethyl submitted an application for a hazardous waste permit for the generation and storage of hazardous waste generated during the research and development activities at the facility. The Part A Hazardous waste permit application listed spent solvent waste codes for the container storage of 6,400 pounds of F002 waste; 5,600 pounds of F004 waste; and 21,000 pounds of F005 waste. These wastes were listed as ignitable (D001), corrosive (D002), reactive (D003), and toxic (D000). During RCRA facility inspections conducted by the Michigan Department of Natural Resources (MDNR) in the early 1980s it was noted that Ethyl was generating organophosphate waste, 1,800 gallons of waste oil, and 4,500 gallons of waste gasoline.

TC Realty, Inc. (TCR) generated waste primarily from testing and analyzing automotive products. TCR generated mineral spirits (D001) from cleaning machinery that tests automotive parts. TCR also generated hydraulic oil and waste motor oil from automotive testing.

### 3.2.2 Former Waste Storage

According to a Preliminary Assessment/Visual Site Inspection Report, prepared by PRC Environmental in 1994, there were four former solid waste management units (SWMU) located at the Site. Ethyl submitted a notification of hazardous waste activity to EPA on August 6, 1980. The facility submitted a RCRA Part A Permit application on November 14, 1980. The application listed container storage (S01) of 5,000 gallons of hazardous waste, and the following waste codes: F002 (6,400 pounds); F004 (5,600 pounds); and F005 (21,000 pounds). Ethyl submitted a closure plan for its hazardous waste storage area SWMU-1 (former drum storage area) on June 3, 1983, which was approved by the EPA on October 11, 1983. The closure was reportedly completed and certified by the MDEQ on February 14, 1984 as a Clean Closure. A FOIA request was sent to EGLE on September 15, 2021 requesting the correspondence that certifies the Clean Closure. Ethyl did not file for EPA hazardous waste activity after February 1984. Additionally, TCR stored mineral spirits waste in a 500-gallon above ground tank and the waste oils were stored in 55-gallon drums at the SWMU-1 location.

### 3.2.3 Former Waste Disposal

Ethyl maintained no records for the generation, storage or disposal of waste onsite. However, according to correspondence from Ethyl to the Oakland County Health Department in 1985, laboratory wastes, residues, used glassware, foundry sands, and containers reportedly were buried in pits in the northern, central, and eastern portions of the Site from 1939 to the early 1980s. Oakland County Health Department records identified 11 pits in the vicinity of former Building AE in the northwestern portion of the Site. These locations have not been confirmed with geophysical or sampling investigations. The 11 pit locations can be found on **Figure 13** and are associated with AOC 2 and previously identified SWMU 2. Other disposal pits were reported north of former Building AI and in the vicinity of the eastern parking lot, where Ethyl Corporation reported that from about 1948 to 1962 metal pans containing residuals of the reaction of sodium compounds with water were disposed in shallow hand-dug holes. No information exists regarding disposal records or transportation for wastes generated by TCR. Additional investigation will be necessary to identify any potentially unknown pits. Geophysical anomalies have been identified and will be investigated.

### 3.2.4 Former Permits

Ethyl held a license from the U.S. Atomic Energy Commission (License #21-0064-01) from 1954 to 1957. According to the 2012 RJN Phase I ESA, the license was for the storage of a small amount of nuclear source material in the Soundproofing Room of Building C. A July 9, 1998 U.S. Nuclear Regulatory Commission (NRC) letter to CMI-Tech Center indicated that the license was terminated prior to 1985 and that there was insufficient information to justify

closure. NRC requested access to perform an inspection of the Site. Inspection results and current permit status were not identified on available online databases.

Hayes-Lemmerz Technical Center, Inc. was identified as RCRA MID 041 803 123, with additional listings under alternative names as Hayes Lemmerz International Inc., Hayes Lemmerz Tech Svc Inc., Hayes Lemmerz Inc., and Hayes Lemmerz Technical Center Incorporated, Ethyl Corp. R&D Labs, and CMI Tech Center, Inc. The CESQG was first identified in 1980 and last reported in 2006 as a generator of ignitable hazardous waste (D001). Violations were identified in 1995, 2001, and 2005 for pre-transport and records/reporting concerns. In 2005, the EPA identified no records of generated waste shipped to off-site facilities, managed on-site, or received from another off-site facility. The facility was identified on the CERCLIS database in March 1986, with Preliminary Assessments performed in March 1986, February 1990, and March 1992 that determined the Site did not qualify for NPL and deferred further response to RCRA Subtitle C. A CERCLIS NFAP determination was issued December 1995. The TSD facility was identified as potentially subject to Corrective Action in June 1992 and assigned a low corrective action priority. A CORRACTS Stabilization Measures Evaluation performed in June 1992 determined that insufficient information was available relative to the facility to support implementation of stabilization measures or feasibility evaluation.

Hayes-Lemmerz Technical Center, Inc. was identified on the ICIS-AIR database as Facility MI0000000000A4646 and as State Registration Number A4646, having the following operating status listings:

| <b>PROGRAM CODE</b> | <b>PROGRAM DESCRIPTION</b>   | <b>OPERATING STATUS</b> |
|---------------------|--|-------------------------|
| CAACFC              | Stratospheric Ozone Protection   | Permanently Closed      |
| CAAFESOP            | Federally Enforceable State Operating Permit – Non-Title V                                 | Permanently Closed      |
| CAAMACT             | MACT Standards (40 CFR Part 63, Subpart RRR)   | Permanently Closed      |
| CAASIP              | State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards | Permanently Closed      |
| CAATVP              | Title V Permits  | Permanently Closed      |

### 3.2.5 Former Storage Tanks

The Site contained numerous unregistered Underground Storage Tanks (USTs) operated by Ethyl ranging in size from 500 to 10,000 gallons. The USTs were used to store gasoline for research and development. In the mid-1980s the Ferndale Fire Department oversaw the excavation of the USTs. Additionally, CMI operated 1-15,000 gallon diesel UST and one-15,000 gallon gasoline UST. However, it is important to note that due to the lack of available documentation pertaining to regulated USTs (USTs which pre-date tank registration regulations) the exact amount of USTs previously located at the Site is currently unknown. A release (C-0185-96) of the CMI USTs was reported in 1996 and granted a Tier I Unrestricted LUST closure

granted in 1998. A summary of the former storage tanks (65 USTs as provided to ATC through historical documentation and/or previous reports) located on the Site is as follows:

| <b>Summary of Former Underground Storage Tanks</b> |                       |                        |  |                       |                     |
|--|-----------------------|------------------------|--|-----------------------|---------------------|
| <b>Number of USTs</b>                              | <b>Size (gallons)</b> | <b>Contents</b>        | <b>Location</b>  | <b>Date Installed</b> | <b>Date Removed</b> |
| 8  | 2,000                 | Gasoline and/or diesel | West of former Building B                                    | Unknown               | 1985                |
| 15   | 500                   | Unknown                | North of former Building H                                   | 1942                  | 1985                |
| 11   | 1,000                 | Unknown                | North of former Building H                                   | 1942                  | 1985                |
| 4  | 5,000                 | Unknown                | North of former Building H                                   | 1942                  | 1985                |
| 4  | 10,000                | Unknown                | North of former Building H                                   | 1942                  | 1985                |
| 14   | 1,000                 | Unknown                | North of former Building H                                   | 1948                  | 1985                |
| 4  | 10,000                | Unknown                | North of former Building H                                   | 1948                  | 1985                |
| 3  | 1,000                 | Unknown                | Likely in the vicinity of former Buildings O,M,J,E, and/or L | Unknown               | 1985                |
| 1  | 15,000                | Diesel                 | West of former Building C                                    | 1988                  | 2008                |
| 1  | 15,000                | Gasoline               | West of former Building C                                    | 1988                  | 2008                |

Please refer to Section 6.0 for details regarding the locations of former USTs located at the Site.

### 3.2.6 Summary of Releases

The Site is identified as a closed LUST site relative to one regulated gasoline UST. A release of gasoline was identified during the refueling of the gasoline UST and a secondary containment chamber (SCC) boot failure occurred in 1996. The gasoline UST was located on the west side of Building C (inclusive to ATC's identified area of concern (AOC) 11 – refer to Section 6.0 for

further details). Following removal of 90 cubic yards of gasoline impacted soil, unrestricted Tier I LUST closure was granted by the MDEQ on February 4, 1998.

A release of heating oil from a former UST located near the north end of Building D was identified based on the 1995 identification of non-aqueous phase liquid (NAPL) in a nearby monitoring well. Because the heating oil UST was not registered, the release was not recorded as a LUST site.

As discussed above, there have been a number of known releases at the Site. It should be noted that presumptively there have may been other historical releases at the Site whose source is unknown. This is evidenced by the presence of contaminants in locations other than where the known releases occurred. Additionally, historical petroleum and fuel additive releases are presumed to have occurred from multiple USTs in the south-central portion of the Site near Buildings B, C, D, E, and F.

## 4.0 SUMMARY OF ENVIRONMENTAL INVESTIGATIONS AND REPORTING

### 4.1 Previous Environmental Investigations and Reporting (1985 to 2019)

Previous environmental investigations and associated reporting, as summarized by Applied EcoSystems, Inc. (AE) RCRA Corrective Action Description of Current Conditions Report, dated November 27, 2019, are provided below:

Oakland County Health Department records indicate that Ethyl Corporation proposed gifting the Site to Oakland County in 1985. At the request of the County, NTH conducted a Preliminary Site Assessment of the Site that identified the previous removal of numerous USTs and the disposal of potentially hazardous waste materials in pits around the Site. December 15, 1985 observations by NTH identified several open boreholes, areas devoid of vegetation, and five 3-inch PVC monitoring wells. The monitoring wells were sampled and screened with a gas chromatograph that identified the tentative presence of toluene, tetrahydrofuran, and chloroform in the groundwater samples. A magnetometer survey was performed that identified the presence of buried metallic materials in at least three areas of the Site. NTH recommended additional investigations to evaluate further historical use and disposal of hazardous materials at the Site, groundwater contamination, and buried wastes. Oakland County declined Ethyl Corporation's offer on January 3, 1986.

Ethyl Corporation provided the MDNR with the results of their Site investigations, concluding that no threat to groundwater existed and no remedial actions were required. However, Ethyl Corporation cautioned that "future excavations should be made with the knowledge that the possibility of uncovering some contamination or an intact container would always remain." Based on review of the limited NTH investigation, MDNR concluded on February 19, 1986, "...this site has been adversely impacted and that additional hydrogeological data is necessary" and recommended the Site for scoring and placement on the Act 307 Priority List.

The April 3, 1997 Swanson Environmental LUST Closure Report addressed a release of gasoline which was identified during the dispensing of gasoline into the USTs and a secondary containment chamber (SCC) boot failure occurred in 1996. The USTs were located on the west side of Building C (inclusive to ATC's identified area of concern (AOC) 11 – refer to Section 6.0 for further details). MTBE, TMB, and ethylbenzene were detected in soil and/or groundwater above Part 213 Drinking Water, Drinking Water Protection, Groundwater/Surface-Water Interface, and/or Groundwater/Surface-Water Interface Protection RBSLs. Approximately 90 cubic yards of impacted soil were removed, and an unrestricted Tier I LUST Closure was granted in 1998.

The November 27, 2012 RJN Environmental Phase I ESA, conducted when the buildings were vacant but not yet demolished, documented removal of 240 cubic yards of impacted soil identified during the removal of two 10,000-gallon fuel oil USTs, located along the northern exterior portion of Building D (inclusive of ATC's identified area of concern (AOC) 10 – refer to Section 6.0 for further details). In 1995, an abandoned 1,000-gallon heating oil additive UST was discovered and removed that was identified as likely responsible for NAPL identified in a nearby monitoring well.

The December 2, 2012 RJN Environmental BEA identified the site as a "facility", based on soil and groundwater contamination identified during the 2012 Phase II ESA (as discussed following).

Groundwater contamination included 1,2-dichlorobenzene and trichloroethylene. In contrast to other reports that typically identified 72-78 historical USTs at the Site, the BEA reported over 100 USTs and over 10 ASTs, removal of which RJN reportedly verified prior to property transfer to Cedan Holdings VI LLC. Due to the discrepancies in the number of tanks that have been reliably located, it should be noted that additional investigation will be done to reliably estimate the amount of tanks that have been on site. Additional tanks or tank holds may be discovered as site investigations proceed. RJN considered impacted groundwater to be perched and stable, not posing a risk of off-site migration. Due to the age of the former USTs (pre-dating UST/AST registration rules) and lack of documentation; discrepancies with respect to the number of USTs and/or ASTs exists at the Site. ATC will continue to conduct additional evaluation to determine the location and contents USTs/ASTs, if such information exists.

The December 18, 2012 RJN Environmental Phase II ESA documented the installation of 30 soil borings and four hand-auger borings in selected areas of former waste disposal, USTs, and chemical storage. Eleven existing monitoring wells also were sampled. Various VOCs (including trichloroethylene), PNAs, and metals were detected above Part 201 DWP and GSIP criteria and arsenic was detected above DC cleanup criteria. No PCBs were detected.

The November 1, 2013 RJN Environmental Phase II ESA of the northern half of the former Ethyl Corp. Site documented the installation of an additional 15 soil borings and four hand-auger borings following completion of structural demolition and regrading and the sampling of five of the existing monitoring wells at the Site. Friable asbestos materials were removed from the buildings prior to their demolition; and airborne asbestos, cadmium and lead concentrations were monitored during demolition. Three areas of soil impact above GRCC were identified: (a) a former disposal pit northwest of Building AE reportedly used to dispose of laboratory glassware from 1939 until the early 1980s, (b) a former disposal pit north of Buildings AD and AF and northeast of Building YZ reportedly used to dispose of reactive sodium residues from 1948 to 1962, and (c) a disposal pit along the northern portion of the eastern parking lot reportedly used to dispose of laboratory glassware from 1939 to 1955 but in which no glass was identified. "Low" levels of VOCs slightly exceeding GRCC for DW were identified in groundwater, reportedly originating from the disposal pit northwest of Building AE. RJN concluded that the Site met then-current commercial and industrial criteria, requiring no remediation for those uses. For residential use, RJN suggested that excavation of the three former disposal areas would be required. RJN considered that such removal likely would reduce groundwater VOC concentrations below GRCC.

The PME November 3, 2015, Phase I ESA was prepared on behalf of CG Emerson Real Estate Group, Emerson Consulting LLC, Pinecrest Holdings LLC, and Cedan Holdings VI LLC. At the time, a 100-square-foot guardhouse (Building Q) remained at the Site. The ESA identified one on-site CREC, four on-site RECs, and two off-site RECs and recommended a Phase II ESA be conducted.

On June 17, 2016, PME submitted a BEA for the entire 34 acre parcel of the Site on behalf of Pinecrest Holdings LLC. The BEA documented additional subsurface investigations conducted in 2015 and 2016. An additional GPR survey was conducted on December 7-9, 2015 to evaluate the potential presence of orphan USTs. Four anomalies suggestive of USTs and one anomaly suggestive of a drum were identified on the central and southern portions of the Site. Hand auger borings were

conducted at the locations of three shallow anomalies but encountered refusal. A metal detector verified that two of the three anomalies were metallic. The deeper anomaly was not evaluated further, due to the lack of available equipment with the ability to reach required estimated depth (this deep anomaly is addressed under ATC's identified area of concern (AOC) 12. Refer to Section 6.0 for further details). On December 7-8, 2015, PME installed 21 soil borings, 16 temporary monitoring wells, and sampled four existing monitoring wells. A total of 19 soil samples and 20 groundwater samples were analyzed variously for VOCs, SVOCs, PCBs, and metals (arsenic, cadmium, chromium, copper, lead, mercury, selenium, silver, and zinc). On March 1, 2016, an additional 13 borings and 11 temporary monitoring wells were installed and two existing monitoring wells sampled. Samples were analyzed variously for VOCs, PNAs, PCBs, arsenic, lead, and mercury. Soil exceedances of GRCC for DWP, GSIP, VSI, and DC were identified; and soil exceedances of GNRCC for DWP DC, and VSI were identified. Groundwater exceedances of GRCC for DW, GSI, and VISL were identified; and groundwater exceedances of GNRCC for DW were identified. VSI and VISL exceedances were associated with TCE and mercury. The BEA concluded that the Site was a facility as defined under Part 201 of P.A. 451, as amended.

An October 5, 2018 MDEQ Interoffice Communication from Joe Rogers to Ronda Blayer, Nate Erber, and Clay Spencer documented completion of a Final Vapor Intrusion Screening Form relative to the Hayes Lemmerz/Ethyl Corp. Site. The Conceptual Site Model identified the main constituents with potential for volatilization to the indoor air pathway to be TCE and possibly PCE. Other potential contaminants were identified as including benzene, toluene, ethylbenzene, xylenes, naphthalene, phenanthrene, acenaphthylene, anthracene, mercury, arsenic, lead, chlorobenzene, and vinyl chloride. Vinyl chloride was not considered significant to the volatilization to indoor air pathway at the time because of its infrequent and low detection.

An October 17, 2018 MDEQ Interoffice Communication from Brian Jeffs to Aaron Berndt documented the August 29, 2018 installation of six soil vapor wells to a depth between 5 and 10 feet below ground level in the right-of-way of Pinecrest Drive between West Eight Mile Road and Fielding Street. Vapor samples were analyzed by the MDEQ Laboratory for VOCs. Detections were identified in all samples, with concentrations of PCE identified in all but one of the vapor wells. PCE concentrations ranged from 1.7 to 26 ppb. TCE was detected in two of the vapor wells at concentrations of 100 and 400 ppb. The highest concentrations were downgradient of the monitoring wells at the Site identified with TCE (MW-9 and MW-10).

A May 21, 2019 EGLE Interoffice Communication from Shane Morrison to Ronda Blayer documented Site-Specific Volatilization to Indoor Air Criteria (VIAC) for the Hayes Lemmerz Site. Site specific criteria were developed for residences constructed with a slab-on-grade (restricted) and for residences constructed with a basement (unrestricted). Criteria assumed a groundwater depth of eight feet below grade and a USDA soil type of sand.

On May 29, 2019, PME conducted a Phase I ESA for the 6 acre parcel of the Site on behalf of Detroit Axle and Axle of Dearborn. The Phase I ESA identified previous recommended environmental conditions (RECs) associated with the former use of the Site.



On June 12, 2019, PME submitted a BEA for the 6 acre parcel of the Site on behalf of Detroit Axle and Axle of Dearborn. The BEA was based upon the findings of PME's May 2019 Phase I ESA and prior assessments conducted by RJN and PME and associated analytical results.

A June 14, 2019 EGLE letter from Allan B. Taylor to Mr. Dennis Griffin of Pinecrest Holdings LLC indicated that EGLE conducted indoor air and sub-slab soil-gas testing at several residences along Pinecrest Avenue in March 2019. No concentrations indicative of vapor intrusion were identified in indoor air or in soil gas beneath the homes above levels of concern. However, groundwater testing in two additional temporary monitoring wells (TMW-01 and TMW-02) along the Pinecrest right-of-way (ROW) between Fielding and Northway Streets, north of the 2018 testing, detected a concentration of vinyl chloride in one temporary monitoring well (TMW-02) above the screening level, indicating that additional evaluation is warranted.

#### **4.2 Environmental Investigations Conducted by ATC (2019 to present)**

ATC was contracted by Axle Holdings 1, LLC in 2019 to perform environmental investigation of the Site. Specifically, the Site was split into a 6 acre portion and a 28 acre portion. Refer to **Figure 1 – Site Details Map**, in Appendix A for a depiction of the boundaries for the two portions of the Site. The Site was split into a 6 acre portion for the future expansion and construction of the western adjacent Detroit Axle facility, while the remaining 28 acre portion was for future use to be determined. The 6 acre portion of the Site is under Land Contract between Pinecrest Holdings, LLC and Axle Holdings 1, LLC; the 28 acre portion of the Site is under Land Contract between Pinecrest Holdings, LLC and Axle Holdings 2, LLC.

On July 12, 2019, ATC advanced twenty-two (22) soil borings to 5 feet bgs utilizing direct push technology. The soil borings were placed within a grid pattern within the 6-acre portion of the Site. Soil samples were continually screened utilizing a photoionization detector (PID) and soil samples were collected from the 4 to 5 foot bgs interval and submitted to the laboratory and placed on hold until further analysis was requested. ATC requested fifteen (15) soil samples be analyzed for the presence of VOCs utilizing USEPA Method 8260B, and Mercury utilizing US EPA Method 7471A. Additionally, within the soil boring annulus, ATC installed twenty-two (22) soil vapor points at a depth of 4 to 5 feet bgs. Soil vapor sampling was conducted on July 15, 2019, by ATC to evaluate the current conditions at the Site for the Volatilization to Indoor Air Pathway. ATC collected twenty-two (22) soil vapor samples (A1- A4, B1-B4, C1-C4, D1-D4, E1-E4, F3 and F4). The soil vapor samples were submitted for laboratory analysis of VOCs utilizing USEPA analytical method TO-15. Following the collection of soil gas samples for VOC analysis, ATC screened the soil vapor points for the presence of mercury using a Lumex Mercury Vapor Analyzer on July 15 and July 24, 2019. Each soil vapor point was purged using a lung pump sampler and tedlar bag for no more than 5 minutes not exceeding 200 ml/minute. The tedlar bag was then connected to the Lumex and ATC recorded the maximum and average mercury vapor reading.

On March 16, 2020, ATC provided oversight for a ground penetrating radar (GPR) and electromagnetic induction (EMI) survey across the Site. The purpose of the GPR and EMI survey was to help identify any anomalies within the subsurface of the Site. EMI was utilized across the entire Site (with the exception of a portion of the paved parking lot area located on the easternmost

portion of the Site). The EMI system generates an electromagnetic field around the user, records interactions between the electromagnetic field and the soil, and displays the results after post-processing. EMI is most sensitive to large metallic objects such as underground storage tanks or reinforced concrete. Resultant imagery processing indicated the presence of multiple deep and shallow voids present within the subsurface, particularly within the southernmost portion of the Site (along southern portion of former building A), westernmost portion and north-central portions of the Site. Refer to **Figures 14, 15 and 16** in Appendix A for EMI Results.

On March 23, 24 and 30, 2020, ATC installed eighteen (18) monitoring wells along the northern, eastern, southern and western (between the current Detroit Axle building and the Site) Site boundaries. Monitoring wells MW-101 through MW-118 were installed using a hand auger and direct push technology to depths ranging from 10 to 20 feet below ground surface. The monitoring wells were installed for the purpose of assessing soil and groundwater concentrations along the Site boundaries. During drilling operations, continuous soil samples were collected and logged by an ATC field geologist. Each soil sample was field screened for total VOCs with a photo-ionization detector (PID), and recorded on field soil boring logs. The construction of the monitoring wells consisted of a two-inch-diameter, flush threaded, polyvinyl chloride (PVC) casing and a five foot-long section of two-inch-diameter, #10 slot PVC well screen. The annular space around the screen in each borehole was filled with medium-grained silica sand to approximately two feet above the top of the screen; above the silica sand, a hydrated bentonite was used to seal the borehole to within one foot bgs. Soil samples collected were analyzed for the presence of VOCs, SVOCs, alcohols and RCRA 8 metals. Resultant analytical data indicated the presence of mercury in excess of Volatilization to Indoor Air Pathway screening levels within the 2 to 4 foot interval at sample locations MW-102 (along the southern Site boundary), and MW-114 and MW-115 (along the northernmost Site boundary). Additionally, phenanthrene was indicated in excess of Volatilization to Indoor Air Pathway screening levels within the 3 to 4 foot interval at MW-114. Methanol was detected in MW-113 (along the northernmost Site boundary) from the 2 to 3 foot depth interval in excess of Non-Residential Drinking Water Protection criteria. Various metals including arsenic, barium, cadmium, chromium, lead and silver were detected at exceedances of Drinking Water Protection and/or Groundwater Surface Water Interface criteria.

On April 8 and 9, 2020, ATC conducted low-flow groundwater sampling at newly installed monitoring wells MW-101 through MW-118. During the sampling event, the groundwater samples were collected using low flow, minimal drawdown sampling techniques. During the low-flow sampling activities, several indicator parameters, including temperature, specific conductivity, dissolved oxygen, pH, oxidation reduction potential, and turbidity, were monitored and recorded every three to five minutes. The water level was also monitored periodically to ensure that excessive water level drawdown did not occur. At each monitoring well, groundwater sample collection proceeded once all indicator parameters had stabilized for three consecutive readings. The groundwater samples were collected into laboratory-provided sample containers, placed into a cooler containing ice, and logged onto a project-specific chain-of-custody form. Groundwater samples were analyzed for the presence of VOCs, SVOCs, alcohols and metals. Resultant analytical data indicated the presence of TCE in samples collected from MW-107, MW-111 (both located along the easternmost Site boundary) and MW-114 (located along the northernmost Site boundary), exceeding

Volatilization to Indoor Air Pathway screening levels. Additionally, vinyl chloride was detected in MW-114 in excess of Volatilization to Indoor Air Pathway screening levels.

On April 14, 15 and 16, 2020, ATC collected low-flow groundwater samples from MW-101 through MW-115 for the presence of pre- and polyfluoralkyl (PFAS) compounds. Samples were collected utilizing EGLE Groundwater PFAS Sampling Guidance, dated October 2018. Resultant analytical data indicated the presence of PFOA exceeding only EGLE Proposed Drinking Water Standard in wells MW-103, MW-106, MW-107, MW-109 and MW-112. Additionally, concentrations of PFOS were detected in excess of water solubility and Groundwater Surface Water Interface criteria in wells MW-103 and MW-112. None of the wells sampled exhibited concentrations in excess of Residential or Non-Residential Drinking Water Criteria for PFAS compounds. The PFAS lab analysis consisted of 24 PFAS compounds from a laboratory that was in the process of obtaining certification for PFAS analysis. While at the time of sampling this was acceptable, moving forward ATC will order analysis of all 28 PFAS compounds that the MPART requires from a fully certified PFAS accredited laboratory.

On April 21, 2020, ATC installed three (3) additional monitoring wells along the eastern Site boundary. Monitoring wells MW-119 through MW-121 we installed using a hand auger and direct push technology to depths ranging from 10 to 15 feet below ground surface. The monitoring wells were installed for the purpose of further assessment of the eastern Site boundary. Soil samples were collected and analyzed for the presence of VOCs and RCRA 8 Metals. Resultant analytical data from soil samples collected indicated the presence of methanol in excess of Residential Drinking Water Protection criteria at MW-120, within the 4 to 5 foot depth interval and metals arsenic and selenium at MW-119 in excess of Non-Residential Drinking Water Protection and/or Groundwater Surface Water Interface critiera at the 2 to 3 foot depth interval.

On April 23, 2020, ATC collected low-flow groundwater samples from MW-119 through MW-121 for the presence of PFAS compounds. Samples were collected utilizing EGLE Groundwater PFAS Sampling Guidance, dated October 2018. Resultant analytical data indicated the presence of PFOA in excess of EGLE Proposed Drinking Water Standard in well MW-121.

On June 15 and 16, 2020, ATC installed ten (10) monitoring wells within the confines of the 6-acre portion of the Site, located along the southern-central portion of the Site. Monitoring wells MW-122 through MW-131 installed using hollow stem auger technology to a depth of 15 feet below ground surface. The monitoring wells were installed for the purpose of assessing soil and groundwater concentrations within the interior of the 6-acre portion of the Site, within designated areas of concern (refer to **Figure 13** – Areas of Concern Map in Appendix A and details in following Section 6.0). Soil samples collected were analyzed for the presence of VOCs, SVOCs, Full List – Michigan Part 201 metals and PCBs. Resultant analytical data indicated the presence of mercury, naphthalene, phenanthrene and/or fluorene in excess of Volatilization to Indoor Air Pathway screening levels at MW-122 (4-5'), MW-125 (4-5'), MW-127 (6-7'), MW-128 (4-5') and MW-129 (3-4'). 2-methylnaphthalene was also detected in excess of Volatilization to Indoor Air Pathway at MW-127 (10-11'), which was installed near the former heating oil UST.

On June 23 and 24, 2020, ATC collected low-flow groundwater samples from monitoring wells MW-12, MW-116 through MW-118 and MW-122 through MW-131. Samples were analyzed for the presence of VOCs, SVOCs and Full List – Michigan Part 201 Metals. In addition, select wells were sampled for 1,4-dioxane, cyanide, PCBs and tetraethyl lead. Sampling for PFAs was conducted at MW-116 through MW-118, MW-122, MW-127 through MW-129 and MW-131. PFAS samples were collected per EGLE PFAS sampling guidance and collected during the first day of the sampling event in order to limit the potential for cross-contamination. Resultant analytical data indicated the presence of TCE in wells MW-126 and MW-129 as well as PFOA and PFOS in wells MW-122, MW-127 through MW-129 and MW-131, with the highest concentrations detected at monitoring well MW-129.

On August 12, 2020, ATC installed two (2) additional monitoring wells within the 6-acre portion of the Site, in order to further assess soil and groundwater concentrations along the eastern boundary of the 6-acre parcel. Monitoring wells MW-131 and MW-132 were installed using hollow stem auger technology to a depth of 16 feet below ground surface. Soil samples collected were analyzed for the presence of VOCs, SVOCs, Full List – Michigan Part 201 Metals and PCBs (MW-132 only). Resultant analytical data indicated the presence of mercury in excess of Volatilization to Indoor Air Pathway screening levels at MW-132 (5.5-6.5') and MW-133 (3-4') and (10-11') intervals. SVOCs include fluoranthene, phenanthrene and naphthalene were also detected within samples collected in excess of Residential and/or Non-Residential Volatilization to Indoor Air Pathway screening levels.

On August 13, 2020, ATC collected low-flow groundwater samples from newly installed monitoring wells MW-131 and MW-132. Samples were analyzed for the presence of VOCs, SVOC, Full List – Michigan Part 201 Metals, cyanide and 1,4-dioxane. Alcohols and PCBs were also analyzed from groundwater samples collected from MW-132. Resultant analytical data indicates the presence of ethylbenzene, naphthalene, methanol, phenanthrene and/or select metals in excess of Residential and/or Non-Residential criteria. Additionally, on August 14, 2020, ATC collected low-flow groundwater samples from MW-132 and MW-133 for the presence of PFAS compounds. Resultant analytical data indicated the presence of PFOA and PFOS in excess of the Proposed Drinking Water Standard and water solubility (PFOS only).

### **General Site Lithology/Hydrogeology**

General site lithology derived from the historical and current subsurface investigations at the Site indicate up to five feet of discontinuous fill containing brick, concrete, and glass debris overlying approximately 20 to 23 feet of loose native sand above clay that extends to bedrock. On the northern portion of the Site, the native sand is interbedded with clay, silty clay, and sandy clay. Groundwater generally is first encountered between 8 to 11 feet bgs and flows in a southeasterly direction. Representative cross-sections can be found in **Figures 19-21**, and provide a visual description of general site lithology. These cross sections will become the basis of the conceptual site plan as additional information is identified during ongoing investigations. Further work will include adding tunnels and utilities onto the cross sections and adding a cross section along the eastern margin of the Site.

## 5.0 NATURE AND EXTENT OF CONTAMINATION

The end point goal that is required of the RCRA Facility Investigation (RFI) is to have the nature and extent of contamination completely defined, both horizontally and vertically, for each contaminant and for each Part 201 Pathway, including any contamination that is migrating off-site.

### 5.1 Soil Characterization

#### 5.1.1 Volatile Organic Compounds (VOCs)

Soil analytical results indicated the presence of the following VOCs in excess of Residential and/or Non-Residential criteria: benzene, toluene, ethylbenzene, xylenes, methyl-tert-butyl-ether (MTBE), 1,2,4- and 1,3,5-trimethylbenzenes (TMBs), naphthalene, chlorobenzene, n-butylbenzene, sec-butylbenzene, 1,2-, 1,3-, and 1,4-dichlorobenzene, isopropylbenzene, n-propylbenzene, tetrachloroethylene (PCE), and trichloroethylene (TCE). Specifically, these concentrations were detected within the central southern portion, northwestern margin, northern boundary and north central portions of the Site. Adsorbed VOC mass is mainly contained to within the 5 to 12 foot depth range within the central southern and northwesternmost portions (inclusive of areas of concern (AOCs) 7, 8, 10 and 16) of the Site and within the upper 4 to 9 foot depth range in the northern boundary and north central portions of the Site (inclusive of AOCs 5, 6 and 15). Specific areas of concern pertaining to soil VOCs are further discussed in Section 6.0. Refer to **Figures 2 and 3** in Appendix A for specific data and locations of soil VOCs and **Table 1A** in Appendix B for a soil VOC analytical data table.

| Highest Concentrations of Soil VOCs |         |                                 |           |               |
|-------------------------------------|---------|---------------------------------|-----------|---------------|
| Soil - VOCs                         | Unit    | Boring/Monitoring Well Location | Date      | Concentration |
| Benzene                             | (ug/kg) | PSB-112                         | 6/21/2016 | 300           |
| Toluene                             | (ug/kg) | SB-7                            | 10/4/2012 | 16,000        |
| Ethylbenzene                        | (ug/kg) | SB-5                            | 10/4/2012 | 32,000        |
| Xylenes                             | (ug/kg) | PSB-103                         | 6/22/2016 | 35,600        |
| Ethyl-tert-butyl-ether (MTBE)       | (ug/kg) | BTWN Tanks                      | 4/11/1996 | 1,000         |
| 1,2,4-Trimethylbenzene              | (ug/kg) | SB-5                            | 10/4/2012 | 220,000       |
| 1,3,5-Trimethylbenzene              | (ug/kg) | SB-5                            | 10/4/2012 | 56,000        |
| Napthalene                          | (ug/kg) | PSB-103                         | 6/22/2016 | 68,100        |
| Chlorobenzene                       | (ug/kg) | SB-7                            | 10/4/2012 | 950           |
| n-Butylbenzene                      | (ug/kg) | SB-5                            | 10/4/2012 | 14,000        |
| sec-Butylbenzene                    | (ug/kg) | SB-5                            | 10/4/2012 | 9,200         |
| 1,2-Dichlorobenzene                 | (ug/kg) | SB-7                            | 10/4/2012 | 7,500         |
| 1,3-Dichlorobenzene                 | (ug/kg) | SB-7                            | 10/4/2012 | 1,400         |
| 1,4-Dichlorobenzene                 | (ug/kg) | SB-7                            | 10/4/2012 | 2,700         |
| Isopropylbenzene                    | (ug/kg) | SB-5                            | 10/4/2012 | 18,000        |
| n-Propylbenzene                     | (ug/kg) | SB-5                            | 10/4/2012 | 72,000        |
| Tetrachloroethylene (PCE)           | (ug/kg) | PSB-171                         | 6/27/2016 | 200           |
| Trichloroethylene (TCE)             | (ug/kg) | PSB-168                         | 6/27/2016 | 2,280         |

### 5.1.2 Semivolatile Organic Compounds (SVOCs)

Soil analytical results indicated the presence of the following SVOCs in excess of Residential and/or Non-Residential criteria: acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, chrysene, dibenzo(a,h)anthracene, fluoranthene, fluorene, 2-methylnaphthalene, naphthalene, phenanthrene and pyrene. Specifically, these concentrations were detected within the central southern portion, northwestern margin, northern boundary and north central portions of the Site. Adsorbed VOC mass is mainly contained to within the 7 to 12 foot depth range within the central southern and northwesternmost portions of the Site (inclusive of AOCs 7, 8, 10 and 16) and within the upper 4 to 9 foot depth range in the northern boundary (inclusive of AOC 15) and north central portions of the Site (inclusive of AOCs 5 and 6). Specific areas pertaining to soil SVOCs are further discussed in Section 6.0. Refer to **Figures 2 and 3** in Appendix A for specific data and locations of soil SVOCs and **Table 1B** in Appendix B for a soil SVOC analytical data table.

| Highest Concentrations of Soil SVOCs |       |                                 |           |               |
|--------------------------------------|-------|---------------------------------|-----------|---------------|
| SVOCs                                | Unit  | Boring/Monitoring Well Location | Date      | Concentration |
| Acenaphthene                         | ug/kg | SB-7                            | 10/4/2012 | 52,000        |
| Acenaphthylene                       | ug/kg | SB-25                           | 10/8/2012 | 67,000        |
| Anthracene                           | ug/kg | SB-25                           | 10/8/2012 | 80,000        |
| Benzo(a)anthracene                   | ug/kg | SB-27                           | 3/1/2016  | 87,500        |
| Benzo(a)pyrene                       | ug/kg | SB-27                           | 3/1/2016  | 130,400       |
| Benzo(b)fluoranthene                 | ug/kg | MW-133                          | 8/12/2020 | 27,200        |
| Benzo(k)fluoranthene                 | ug/kg | MW-133                          | 8/12/2020 | 10,600        |
| Benzo(g,h,i)perylene                 | ug/kg | MW-133                          | 8/12/2020 | 13,300        |
| Chrysene                             | ug/kg | MW-133                          | 8/12/2020 | 21,800        |
| Dibenzo(a,h)anthracene               | ug/kg | SB-27                           | 3/1/2016  | 10,000        |
| Fluoranthene                         | ug/kg | SB-27                           | 3/1/2016  | 204,700       |
| Fluorene                             | ug/kg | SB-25                           | 10/8/2012 | 100,000       |
| 2-Methylnaphthalene                  | ug/kg | SB-25                           | 10/8/2012 | 160,000       |
| Naphthalene                          | ug/kg | PSB-103                         | 6/22/2016 | 68,100        |
| Phenanthrene                         | ug/kg | SB-25                           | 10/8/2012 | 410,000       |
| Pyrene                               | ug/kg | MW-133                          | 8/12/2020 | 46,900        |

### 5.1.3 Metals

Soil analytical results indicated the presence of the following metals in excess of Residential and/or Non-Residential criteria: aluminum, arsenic, barium, boron, cadmium, chromium, cobalt, iron, lead, magnesium, manganese, mercury, molybdenum, selenium, silver and zinc. The distribution of metals concentrations is more widely dispersed across the site, as opposed to adsorbed concentrations of VOCs and SVOCs. Depth to metals concentrations varies, with the

majority of the mass lying within the shallow soil at approximately 2 to 6 feet bsg. Specific areas pertaining to soil metals concentrations are further discussed in Section 6.0. Refer to **Figures 2 and 3** in Appendix A for specific data and locations of soil metals and **Table 1C** in Appendix B for a soil metals analytical data table.

| Highest Concentrations of Soil Metals |       |                                 |           |               |
|---------------------------------------|-------|---------------------------------|-----------|---------------|
| Soil - Metals                         | Unit  | Boring/Monitoring Well Location | Date      | Concentration |
| Aluminum                              | ug/kg | MW-133                          | 8/12/2020 | 6,450,000     |
| Arsenic                               | ug/kg | PSB-172                         | 6/27/2016 | 35,200        |
| Barium                                | ug/kg | MW-115                          | 3/24/2020 | 1,950,000     |
| Boron                                 | ug/kg | MW-133                          | 8/12/2020 | 12,100        |
| Cadmium                               | ug/kg | MW-115                          | 6/27/2020 | 77,000        |
| Chromium                              | ug/kg | MW-115                          | 6/27/2020 | 179,000       |
| Cobalt                                | ug/kg | MW-125                          | 6/16/2020 | 2,270         |
| Iron                                  | ug/kg | MW-126                          | 6/16/2020 | 58,100,000    |
| Lead                                  | ug/kg | MW-115                          | 6/24/2020 | 895,000       |
| Magnesium                             | ug/kg | MW-133                          | 8/12/2020 | 10,400,000    |
| Manganese                             | ug/kg | MW-126                          | 6/15/2020 | 440,000       |
| Mercury                               | ug/kg | MW-132                          | 8/12/2020 | 1,090         |
| Molybendum                            | ug/kg | MW-126                          | 6/15/2020 | 3,830         |
| Selenium                              | ug/kg | MW-119                          | 4/21/2020 | 2,540         |
| Silver                                | ug/kg | PSB-171                         | 6/27/2016 | 11,400        |
| Zinc                                  | ug/kg | PSB-104                         | 6/22/2016 | 1,520,000     |

## 5.2 Groundwater Characterization

### 5.2.1 Volatile Organic Compounds (VOCs)

Groundwater analytical results indicated the presence of the following VOCs in excess of Residential and/or Non-Residential criteria: benzene, chlorobenzene, cis-1,2-dichloroethene, ethylbenzene, naphthalene, methanol, trichloroethylene (TCE), tetrachloroethylene (PCE), tetrahydrofuran and vinyl chloride. Groundwater concentrations are mainly located within the south-central portion of the Site (inclusive of AOCs 7 and 8) and along the eastern and northern boundaries (inclusive of AOCs 15, 19 and 20). Specific areas pertaining to groundwater VOC concentrations are further discussed in Section 6.0. Refer to **Figure 6** in Appendix A for specific data and locations of groundwater VOCs and **Table 2A** in Appendix B for a groundwater VOC analytical data table.

| Highest Concentrations of Groundwater VOCs |      |                                 |            |               |
|--|------|---------------------------------|------------|---------------|
| Groundwater - VOCs                         | Unit | Boring/Monitoring Well Location | Date       | Concentration |
| Benzene                                    | ug/L | MW-114                          | 4/9/2020   | 1.9           |
| Chlorobenzene                              | ug/L | TMW-3                           | 3/1/2016   | 49            |
| cis-1,2-Dichloroethene                     | ug/L | TMW-8                           | 12/8/2015  | 36            |
| Ethylbenzene                               | ug/L | MW-132                          | 8/13/2020  | 3.7           |
| Napthalene                                 | ug/L | TMW-32                          | 3/1/2016   | 110           |
| Methanol                                   | ug/L | MW-132                          | 8/13/2020  | 8,740         |
| Trichloroethylene (TCE)                    | ug/L | MW-10                           | 10/9/2012  | 22            |
| Tetrachloroethylene (PCE)                  | ug/L | TMW-16                          | 12/7/2015  | 35            |
| Tetrahydrofuran                            | ug/L | W-5                             | 12/17/1985 | 375-400       |
| Vinyl Chloride                             | ug/L | TMW-02                          | 3/27/2019  | 24            |

### 5.2.2 Semivolatile Organic Compounds (SVOCs)

Groundwater analytical results indicated the presence of the following SVOCs in excess of Residential and/or Non-Residential criteria: carbazole, fluoranthene, napthalene and phenanthrene. Groundwater concentrations are mainly located within the south-central portion of the Site (inclusive of AOCs 7 and 8) and along the eastern and northern boundaries (inclusive of AOCs 15, 19 and 20). Specific areas pertaining to groundwater SVOC concentrations are further discussed in Section 6.0. Refer to **Figure 7** in Appendix A for specific data and locations of groundwater VOCs and **Table 2B** in Appendix B for a groundwater SVOC analytical data table.

| Highest Concentrations of Groundwater SVOCs |      |                                 |           |               |
|---|------|---------------------------------|-----------|---------------|
| Groundwater - SVOCs                         | Unit | Boring/Monitoring Well Location | Date      | Concentration |
| Carbazole                                   | ug/L | MW-132                          | 8/13/2020 | 11.5          |
| Fluoranthene                                | ug/L | MW-127                          | 6/24/2020 | 2             |
| Napthalene                                  | ug/L | TMW-32                          | 3/1/2016  | 110           |
| Phenanthrene                                | ug/L | MW-132                          | 8/13/2020 | 5.6           |

### 5.2.3 Perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS)

Groundwater analytical results indicated the presence of PFOA and PFOS and perfluorononanoic acid (PFNA) in excess of Residential and Non-Residential criteria. Groundwater concentrations are mainly located within the south-central portion of the Site (inclusive of AOCs 7, 8 and 10), as well as along the eastern and southeastern margins (inclusive of AOCs 9, 19 and 20). Specific areas pertaining to PFOA/PFOS concentrations are further discussed in Section 6.0. Refer to **Figure 9** in Appendix A for specific data and locations of groundwater PFAS and **Table 2E** in Appendix B for a groundwater PFAS analytical data table.



| Highest Concentrations of PFOA, PFOS, PFNA |      |                                 |           |               |
|--|------|---------------------------------|-----------|---------------|
| Groundwater - PFAS                         | Unit | Boring/Monitoring Well Location | Date      | Concentration |
| PFOA                                       | ng/L | MW-129                          | 6/24/2020 | 80            |
| PFOS                                       | ng/L | MW-129                          | 6/24/2020 | 96            |
| PFNA                                       | ng/L | MW-129                          | 6/24/2020 | 9.8           |

#### 5.2.4 Metals

Groundwater analytical results indicated the presence of the following metals in excess of Residential and/or Non-Residential criteria: aluminum, arsenic, boron, iron, lead, manganese, mercury, sodium and vanadium. Groundwater concentrations are mainly located within the south-central portion of the Site (inclusive of AOCs 7, 8 and 10). Specific areas pertaining to metals concentrations in groundwater are further discussed in Section 6.0. Refer to **Figure 8** in Appendix A for specific data and locations of groundwater metals and **Table 2C** in Appendix B for a groundwater metals analytical data table.

| Highest Concentrations of Groundwater Metals |      |                                 |           |               |
|--|------|---------------------------------|-----------|---------------|
| Groundwater - Metals                         | Unit | Boring/Monitoring Well Location | Date      | Concentration |
| Aluminum                                     | ug/L | MW-123                          | 6/23/2020 | 9,930         |
| Arsenic                                      | ug/L | TMW-3                           | 3/1/2016  | 18            |
| Boron  | ug/L | MW-133                          | 8/13/2020 | 1,210         |
| Iron   | ug/L | MW-123                          | 6/23/2020 | 10,800        |
| Lead   | ug/L | MW-132                          | 8/13/2020 | 23            |
| Manganese                                    | ug/L | MW-12                           | 6/23/2020 | 945           |
| Mercury                                      | ug/L | MW-123                          | 6/23/2020 | 0.27          |
| Sodium                                       | ug/L | MW-12                           | 6/23/2020 | 276,000       |
| Vanadium                                     | ug/L | MW-123                          | 6/23/2020 | 34            |

### 5.3 Soil Vapor Contamination

#### 5.3.1 Volatile Organic Compounds

Soil vapor analytical results indicated the presence of TCE within the south-central portion of the Site and along the eastern property boundary and across Pinecrest Drive, to the east of the Site. TCE concentrations were detected in excess of Volatilization to Indoor Air Pathway screening levels and are further discussed in Section 6.0. However, it is important to note that EGLE conducted indoor air and sub-slab soil-gas testing at several residences along Pinecrest Avenue in March 2019. No concentrations indicative of vapor intrusion were identified in indoor air or in soil gas beneath the homes above levels of concern. Furthermore, concentrations of PCE were detected in temporary soil gas vapor point E4, located within the area of ATC's defined area of

concern (AOC) 7, within the southern portion of the Site. Refer to **Figure 12** in Appendix A for specific data and locations of soil gas vapor and **Table 3** in Appendix B for a soil gas analytical data table.

| Highest Concentrations of Soil Vapor VOCs |       |           |           |               |
|---|-------|-----------|-----------|---------------|
| Soil Vapor - VOCs                         | Unit  | Sample ID | Date      | Concentration |
| Trichloroethene (TCE)                     | ug/M3 | C3        | 7/15/2019 | 192           |
| Tertachloroethene (PCE)                   | ug/M3 | B3        | 7/15/2019 | 1,470         |

## 5.4 Human Exposure Pathways

### 5.4.1 Dermal

Due to the proposed redevelopment of the Site there is a potential for exposure to construction workers during Site activities. This dermal contact exposure pathway is complete; however the exposure will be minimal and can be controlled with engineering measures during construction. Furthermore, the Site is fenced-in, vacant land with no access available to the general public. The fence surrounding the entire portion of the Site will mitigate the potential for dermal exposure.

### 5.4.2 Ingestion

The Site and surrounding area is connected to municipal water supply. There are no water wells present onsite historically or present within two-miles of the Site. Therefore, the ingestion exposure pathway is not complete.

### 5.4.3 Inhalation

Soil and groundwater on the Site is impacted with VOCs and mercury that exceed the recommended interim action screening levels for Volatilization to Indoor Air. There are currently no structures present onsite; however, planned developments will create a completed exposure pathway and further mitigation will be necessary. The Particulate Soil Inhalation Criteria and the Soil Volatilization to Ambient Air Criteria also apply at the Site. Additionally, it is required to delineate all Part 201 Pathways and exceedances (restricted or remediated), regardless of whether the pathways are currently complete. Moving forward, comparison tables will be created to aid in the investigation.

## 5.5 Groundwater and Surface Water Exposure Pathways

Concentrations of various constituents exceed Groundwater Surface Water Interface criteria for both soil and groundwater on the Site. However, the City of Ferndale is a combined storm and sanitary sewer system, therefore any water entering the storm sewers is treated at a wastewater treatment facility prior to being discharged. The Municipal Separate Storm Sewer System (MS4) program applies to the combined sewer system at the facility if contaminated groundwater is entering the sewers. ATC will

continue to evaluate the depth of the storm/sewer system as it comes into contact with groundwater and sources in soil.

## **5.6 Land Use**

The City of Ferndale Master Plan updated January 2017 indicates the Site is characterized by Mixed Use for future developments. Mixed use land developments encourage a complementary mixture of small-scale uses included residential, local business and offices that are compatible in a neighborhood setting. The Site is noted in the City of Ferndale Master Plan as a key development Site in which the City plans is encouraging a mixed use development that offers residential, commercial, office, healthcare and recreational space. Based on the current conditions at the Site this land use would create a completed exposure pathway, however the potential for exposure will be mitigated by the use of engineering and/or institutional controls.

## **5.7 Sensitive Populations**

The Site is fenced-in, vacant land with no access available to the general public. The fence surrounding the entire portion of the Site will mitigate the potential for exposure to sensitive populations.

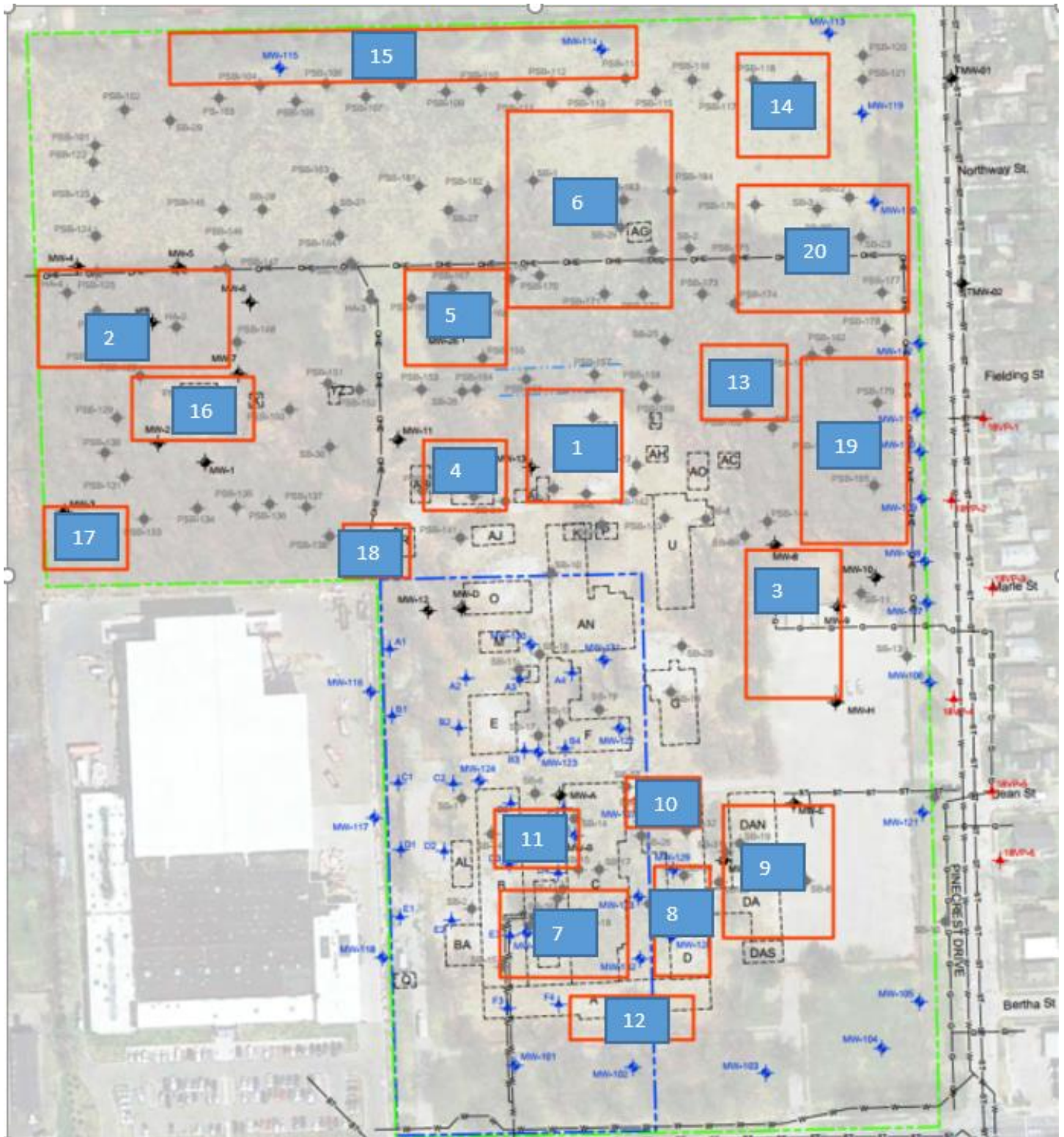
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## 6.0 AREAS OF CONCERN (AOCS) AND CONCEPTUAL WORK PLANS

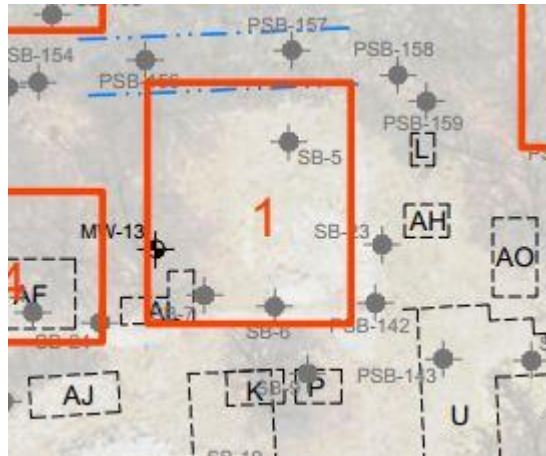
ATC has divided the Site into twenty (20) areas of concern (AOC), based upon past use, identified waste management units, geophysical anomalies, EMI survey data and/or soil, groundwater and/or soil vapor concentrations within those specific areas. The purpose of the AOCs is to better define specific areas that have been identified with the highest concentrations of concern in media and/or subsurface anomalies/EMI indications which may be further investigated. Refer to **Figure 13** – Areas of Concern Map in Appendix A, a small preview of which has been provided below for reference.

Each AOC is described below along with the conceptual investigation for each AOC for purposes of future discussions with EGLE. Each AOC will have an RFI Work Plan submitted subsequent to this report. Section 8.0 focuses on the work plan for the first priority for investigation.

As part of the investigation of each AOC, which will be conducted with our understanding of EGLE prioritization, ATC will develop a site-wide element of the investigation. This site wide investigation will include the installation of deep monitoring wells, investigate site wide hydrogeological conditions, identification of drainage patterns, onsite current and former utilities, prior tunnels located onsite, which will inform the CSM including known releases, the nature and extent of contamination, the potential presence of non-aqueous phase liquids, the fate and transport of contaminants, and potential receptors. This will provide site-wide clarity and provide decision making criteria to investigate each AOC as additional information is obtained. In addition, new AOCs may be identified and added to the list of AOCs currently known.



## 6.1 AOC 1 – SWMU 1

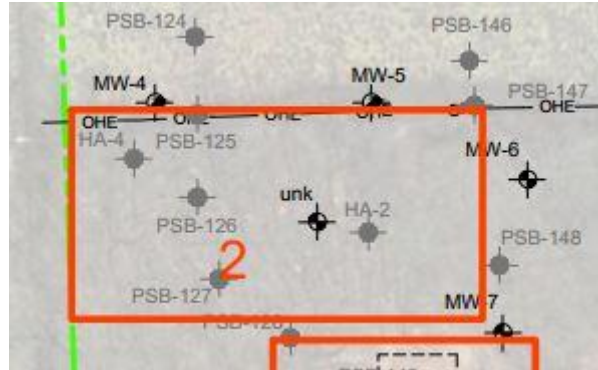


The area designated as solid waste management unit (SWMU) SWMU-1 (as originally defined in a Preliminary Assessment/Visual Site Inspection Report, prepared by PRC Environmental in 1994) is a former drum storage area and is located within the north-central portion of the Site, in a sparsely wooded area. The area formerly consisted of an approximately 12,000 square foot exterior concrete pad. Historical subsurface investigation within this SWMU has not been extensive, with only two soil borings/temporary monitoring wells installed within the boundary of the former drum storage area. Specifically, soil boring/temporary monitoring wells SB/TMW-5 and SB/TMW-6 installed in December 2015, indicated soil and groundwater concentrations below Residential and Non-Residential criteria for all constituents analyzed.

### **Conceptual Work Plan AOC 1:**

Conceptual work includes the installation of a few groundwater monitoring wells within the area of SWMU-1 in order to collect additional soil and groundwater samples. Monitoring wells should be placed within the northwestern, central and southeastern portions of the former drum storage area in order to evaluate soil and groundwater conditions in a cross-gradient direction. Analysis will include, but not limited to, VOCs, SVOCs, metals, PFAS compounds, and polychlorinated biphenyls (PCBs). A specific RFI Work Plan will be developed for this AOC and submitted subsequent to this report.

## 6.2 AOC 2 – SWMU 2



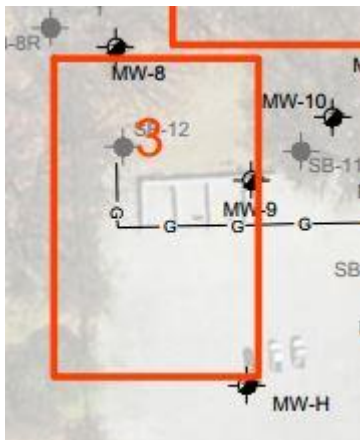
The area designated as solid waste management unit (SWMU) SWMU-2 (as originally defined in a Preliminary Assessment/Visual Site Inspection Report, prepared by PRC Environmental in 1994) is located within the northwestern portion of the Site, along the northwestern property boundary, in a vacant wooded area. This location was a former burial area for various laboratory wastes and residues utilized by Ethyl Corporation from approximately 1962 until 1983. Historical subsurface investigation within this SWMU has not been extensive, with only four soil borings installed within the boundary of the former disposal pit area. Specifically, only two of the soil borings, HA-2 and HA-4, installed in October 2012, exhibited select PNA and metals concentrations in soil. However, concentrations were below Residential and Non-Residential criteria. Groundwater has not been investigated within the SWMU area, however groundwater collected from historical monitoring wells MW-4 and MW-5 (located along the northern exterior border of the SWMU area) as well as historical monitoring well MW-2 (located south of the SWMU area), exhibited dissolved concentrations of tetrahydrofuran at a groundwater depth of approximately 20 to 25 feet below surface grade (bsg) in 1985. Dissolved concentrations of tetrahydrofuran exceed both Residential and Non-Residential Drinking Water criteria.

### Conceptual Work Plan AOC 2:

Conceptual work includes vertically profiling groundwater conditions within the area of SWMU-2. Specifically, install a nested pair of monitoring wells located at the down-gradient edge of the AOC: one deep monitoring well in order to determine the vertical extent of dissolved tetrahydrofuran and one shallow monitoring well to determine the shallow extent (if any) of tetrahydrofuran. Collect soil and groundwater samples upon installation of the wells to determine if SWMU-2 is the source area for the tetrahydrofuran plume observed within this area.

A RFI Work Plan will be developed prior to investigation of this AOC that includes specifics pertaining to the installation of nested wells and test pits to further delineate the former pit disposal area. The RFI work plan will also contain a contingency plan regarding how to remove, manage, and dispose of intact containers, should any be found.

### 6.3 AOC 3 – SWMU 3



The area designated as solid waste management unit (SWMU) SWMU-3 (as originally defined in a Preliminary Assessment/Visual Site Inspection Report, prepared by PRC Environmental in 1994) is located within the eastern portion of the Site, within the northwest corner of the paved parking lot area. This location was a former burial area for various laboratory wastes and residues utilized by Ethyl Corporation from approximately 1939 until 1955. Subsurface investigation within this area has not been extensive. However, TCE concentrations have been historically detected in monitoring well MW-10.

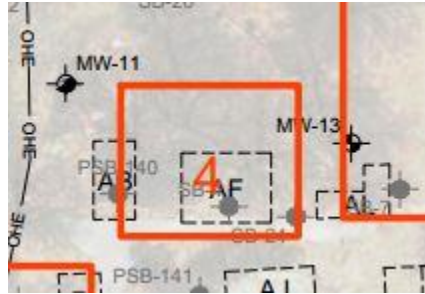
#### **Conceptual Work Plan AOC 3:**

Conceptual work includes the installation of two to three permanent monitoring wells within the area of SWMU-3 in order to collect soil and groundwater samples. Monitoring wells will be vertically screened to the top of the clay unit and placed within the northwestern, central and southeastern portions of the area in order to evaluate soil and groundwater conditions in a cross-gradient direction.

The intent of the initial RFI Work Plan discussed in Section 8.0 is to begin investigation of AOC 3. Following that investigation, an RFI Work Plan will be developed and submitted separate to this report that proposes the work necessary to further determine the condition of the AOC, details the installation of monitoring wells, details analysis to be conducted, and develops a plan to remove, manage, and dispose of any intact containers, should they be found.

### 6.4 AOC 4 – SWMU 4





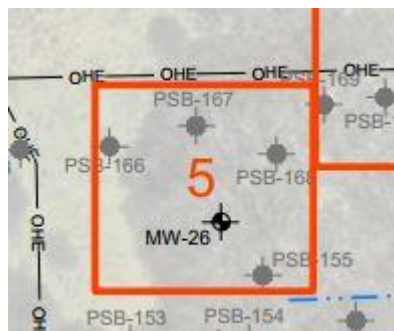
The area designated as solid waste management unit (SWMU) SWMU-4 (as originally defined in a Preliminary Assessment/Visual Site Inspection Report, prepared by PRC Environmental in 1994) is located in the north-central portion of the Site, within a heavily wooded area. This area was formerly utilized as a container and tank storage area, which consisted of an approximately 1,500 square foot concrete pad with a curb, which was covered with a roof and secured with a chain linked fence. This area became active in 1987 for the staging area of waste prior to disposal. Historical subsurface investigation within this SWMU has not been extensive, with only one soil boring installed within the boundary of the former container and tank storage area. Specifically, soil boring/temporary monitoring well SB/TMW-4 installed in December 2015, exhibited select metals in soil and groundwater samples, however concentrations were below both Residential and Non-Residential criteria.

#### Conceptual Work Plan AOC 4:

Conceptual work includes the installation of two permanent monitoring wells within the area of SWMU-4 in order to collect soil and groundwater samples. Monitoring wells will be placed within the northwestern and southeastern portions of the area in order to evaluate soil and groundwater conditions in a cross-gradient direction and will be analyzed for VOCs, SVOCs and metals.

A RFI work plan will be developed and submitted subsequent to this report to further detail the installation of monitoring wells along with the advancement of a boring in the center of any potential sump, vault, or secondary containment past the depth of the bottom of the structure.

### 6.5 AOC 5 – Former Disposal Pit Area



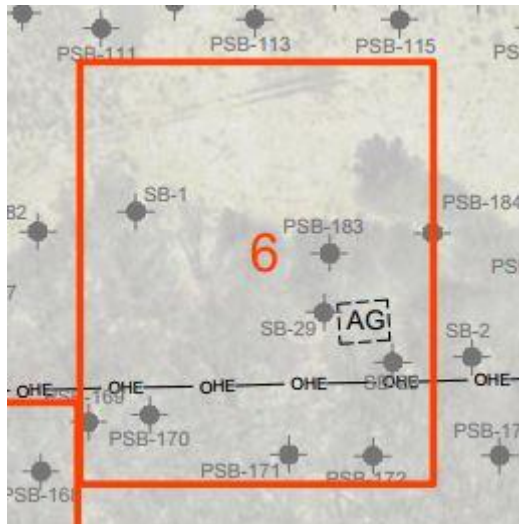
This location was a former burial area for various laboratory wastes and residues utilized by Ethyl Corporation from approximately 1948 until 1962. Specifically, reactive sodium compounds were reacted with water and the resultant residue was buried within this area. Historical subsurface investigations within this area in March and June 2016 have shown trichloroethylene (TCE) to be present in soil boring PSB-168 and soil boring/temporary monitoring well SB/TMW-26. TCE was present in soil at a depth of approximately 2 to 3 feet bsg at soil boring PSB-168 and in groundwater at a depth of approximately 10.22 feet bsg at temporary monitoring well TMW-26. At both locations, TCE concentrations were in excess of both Residential and Non-Residential Volatilization to Indoor Air Pathway screening levels. Additionally, 1,1,2-trichloroethane was detected in groundwater at TMW-26 at levels exceeding Residential and Non-Residential Drinking Water criteria. Mercury concentrations in soil were detected in excess of Volatilization to Indoor Air Pathway screening levels at PSB-168 at 2 to 3 feet bsg.

#### **Conceptual Work Plan AOC 5:**

Conceptual work includes the installation of three monitoring wells within the former disposal pit area. Specifically, install monitoring wells that are vertically screened to the base of the sand unit and located within the southwestern, northern and eastern/southeastern portions of the former disposal pit area. Monitoring wells will determine if TCE concentrations are migrating from another portion of the Site or if the former disposal pit area is a source of TCE. In addition to TCE, monitoring wells will be sampled and analyzed for all parameters with tentatively identified compounds (TICs).

A RFI Work Plan will be developed and submitted subsequent to this report to further describe any soil borings that will be advanced and proposed test pits. The RFI Work Plan will also specify how the wells to be drilled and the decision criteria used to determine the depths of soil borings to be taken.

## 6.6 AOC 6 – EMI Interference – GPR Anomaly Area/Concrete Pad Burn Pit



Electromagnetic induction (EMI) conducted across the Site indicated the presence of deep and shallow voids within the subsurface of this area, which is located within the northern-central portion of the Site. The presence of deep and shallow voids indicate the potential for buried material, disturbed subsurface soils and/or orphan underground tanks. Furthermore, ground penetrating radar (GPR) surveys conducted within this area indicated anomalies within the subsurface, which may also indicate the presence of orphan underground tanks. According to historical documents, a burn pit, consisting of a concrete pad, was historically located within this area as well as a depression pond and notable ground disturbance/soil stockpiles. Historical subsurface investigations conducted in June 2016 within this area indicate the presence of tetrachloroethylene (PCE) and TCE in soil at soil borings PSB-170 and PSB-171. Specifically, TCE concentrations in soil were detected at PSB-170 and PSB-171 at a depth of 2 to 3 feet bsg in excess of Volatilization to Indoor Air Pathway screening levels. Additionally, PCE concentrations in excess of Volatilization to Indoor Air Pathway screening levels were detected at PSB-171 at a depth of 2 to 3 feet bsg. Adsorbed mercury concentrations in excess of Volatilization to Indoor Air Pathway screening levels were also detected at PSB-170 at a depth of 2 to 3 feet bsg.

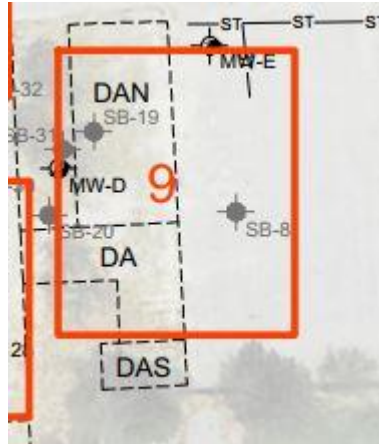
### Conceptual Work Plan AOC 6:

Conceptual work includes the completion of test pits within the areas identified with deep and shallow voids, as well as GPR anomalies. The completion of test pits will determine the absence/presence of orphan underground tanks and/or buried material. Soil samples will be collected from the interior of test pits, should impacted materials be encountered. Installation of three to four permanent monitoring wells will also be installed and vertically screened to the base of the sand unit; they will be located within the area to define the extent of TCE, PCE and mercury within soil and groundwater, but will be analyzed for all parameters with TICs.





## 6.9 AOC 9 – Neutralization Basin/Former UST Area



The area of a former neutralization basin and former underground storage tank (UST) area is located along the southeastern portion of the Site. Historical subsurface investigations within this area has not been extensive, with only five soil borings/temporary monitoring wells installed within the boundary of the former neutralization basin and UST area. Specifically, soil boring/temporary monitoring wells SB/TMW-19, SB/TMW-20 and SB/TMW-31 installed between December 2015 and March 2016 indicated soil and groundwater concentrations below Residential and Non-Residential criteria for all constituents analyzed.

### Conceptual Work Plan AOC 9:

Conceptual work includes the installation of three to four permanent monitoring wells along the northern, eastern, southeastern and western boundaries of this area in order to evaluate soil and groundwater conditions in a cross-gradient direction. Additionally, two to three soil borings will be advanced within the central portion of this area, within the approximate former location of the neutralization basin and area of former USTs. Analysis will include, but not limited to, VOCs, SVOCs and metals.

The intent of the initial RFI Work Plan discussed in Section 8.0 is to begin investigation of AOC 9. Following that investigation a RFI Work Plan that may include the advancement of soil borings past the depth of the bottom of the sump, vault, and/or secondary containment. The work plan will detail soil samples to be collected from the depth immediately below the structure and the boring will continue a minimum of 5 feet below the bottom of the structure with samples collected based on a visual evidence of a release or elevated PID readings. A final sample will be collected at the final depth of the boring.

## 6.10 AOC 10 – Former Heating Oil UST/EMI Interference – GPR Anomaly



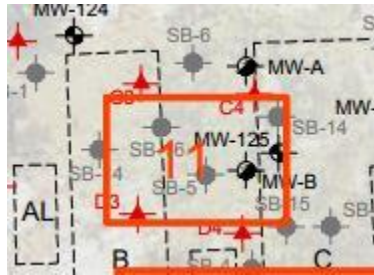
Electromagnetic induction conducted indicated the presence of deep and shallow voids within the subsurface of this area, which is located within the southern-central portion of the Site. Furthermore, a GPR survey conducted within this area indicated an anomaly within the subsurface. According to historical documentation, a former heating oil UST was located within this area. Subsurface investigations conducted within this area indicated the presence of heating oil constituents within the subsurface. Specifically, monitoring well MW-127 installed in June 2020 indicated adsorbed concentrations of fluorene, 2-methylnaphthalene and phenanthrene in soil exceeding Residential and Non-Residential Volatilization to Indoor Air and/or Groundwater Surface Water Interface Protection criteria at the 10 to 11 feet bsg interval. Additionally, dissolved concentrations of naphthalene were detected in groundwater samples collected in June 2020, in excess of Volatilization to Indoor Air Pathway screening levels.

### Conceptual Work Plan AOC 10:

Conceptual work includes the completion of test pits within the areas identified with deep and shallow voids, as well as the GPR anomaly. The completion of test pits will determine the absence/presence of orphan underground tanks and/or buried material. Soil samples will be collected from the interior of each test pit, midway up the sidewall, and at the bottom of the excavation, should impacted materials be encountered. Installation of an additional one to two permanent monitoring wells that are vertically screened to the base of the sand unit will also be completed within the area to define the extent of heating oil constituents and soil and groundwater. Analysis will include all parameters with TICs.

A RFI Work Plan will be developed and submitted subsequent to this report that provides more detail on the proposed test pits (including the number, location, and depth to proposed pits), the proposed monitoring wells that will be drilled, analysis parameters, and a contingency plan regarding the removal, management, and disposal of intact containers should they be found.

## 6.11 AOC 11 – Former UST Area/EMI Interference



Electromagnetic induction conducted indicated the presence of deep and shallow voids within the subsurface of this area, which is located within the southern-central portion of the Site. According to historical documentation, USTs were formerly located within this area. Soil verification samples collected during UST excavation activities in 1996 indicated the presence of gasoline related constituents (xylenes, methyl-tert-butyl-ether (MTBE), ethylbenzene, 2-methylnaphthalene, naphthalene, and trimethylbenzenes (TMBs)) in excess of Residential and Non-Residential Drinking Water and Groundwater Surface Water Interface criteria between 6.5 to 12 feet bsg. Additionally, soil gas samples collected from a temporary soil vapor point C3 installed within this area in July 2019, exhibited TCE soil vapor concentrations in excess of Volatilization to Indoor Air Pathway screening levels.

### Conceptual Work Plan AOC 11:

Conceptual work includes the completion of test pits within the areas identified with deep and shallow voids. The completion of test pits will determine the absence/presence of any remaining USTs within this area. Two to three permanent monitoring wells that are vertically screened to the base of the sand unit will be installed along the northwestern, western, and southeastern borders of the area to determine if adsorbed concentrations extend beyond the former UST area. Analysis will include all parameters with TICs.

A RFI Work Plan will be developed and submitted subsequent to this report that provides more detail on the proposed test pits (including the number, location, and depth to proposed pits), the proposed monitoring wells that will be drilled, analysis parameters, soil borings, the soil vapor investigation, and a contingency plan regarding the removal, management, and disposal of intact containers should they be found.



## 6.12 AOC 12 – EMI Interference – GPR Anomaly



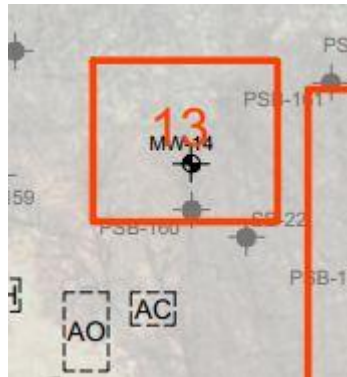
Electromagnetic induction conducted indicated the presence of a large deep void within the subsurface of this area, which is located within the southern portion of the Site. Furthermore, a GPR survey conducted within this area indicated an anomaly within the subsurface. Subsurface investigation within this area has not been extensive. Soil samples collected from adjacent monitoring well, MW-132 installed in August 2020 indicate adsorbed concentrations of phenanthrene exceeding Volatilization to Indoor Air and Groundwater Surface Water Interface criteria at a depth of 5.5 to 6.5 feet bsg. Additionally, naphthalene was detected in groundwater samples collected from MW-132 and exceed Volatilization to Indoor Air and Groundwater Surface Water Interface criteria.

### **Conceptual Work Plan AOC 12:**

Conceptual work includes the completion of test pits within the large area identified as a deep void as well as within the area of the GPR anomaly. Soil samples will be collected from the interior of each test pit, midway up the sidewall, and at the bottom of the excavation, should impacted materials be encountered. Based upon observed subsurface conditions encountered during the test pits, one to two additional permanent monitoring wells will be installed that are vertically screened to the base of the sand unit and located along the eastern and western boundaries of the area to determine soil and groundwater conditions.

A RFI Work Plan will be developed and submitted subsequent to this report that provides more detail on the proposed test pits (including the number, location, and depth to proposed pits), the proposed monitoring wells that will be drilled, soil borings, analysis parameters, and a contingency plan regarding the removal, management, and disposal of intact containers should they be found.

### 6.13 AOC 13 – EMI Interference



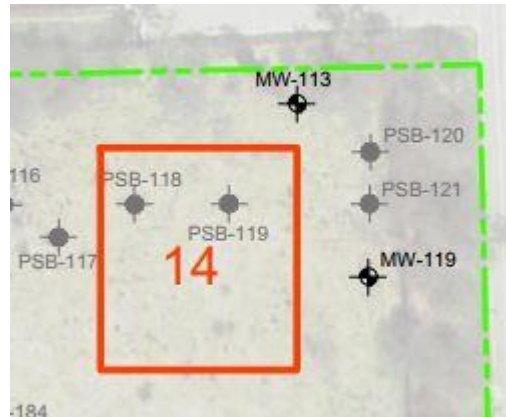
Electromagnetic induction conducted indicated the presence of approximately four deep voids within the subsurface of this area, which is located within the northeastern portion of the Site. Subsurface investigation within this area has not been extensive. Specifically, only two soil borings and one monitoring well has been historically advanced within this area. Soil boring SB-22 advanced in October 2012 indicated the presence of select metals in soil, however all concentrations were below Residential and Non-Residential criteria.

#### **Conceptual Work Plan AOC 13:**

Conceptual work includes the completion of test pits within the areas identified as deep voids. Soil samples will be collected from the interior of each test pit, midway up the sidewall, and at the bottom of the excavation, should impacted materials be encountered. Once the nature of the anomaly is identified, it may be necessary to conduct soil sampling immediately below any pit, tank, and/or sump. Based upon observed subsurface conditions encountered during the test pits, one to two additional permanent monitoring wells will be installed that are vertically screened to the base of the sand unit, and located along the eastern and western boundaries of the area to determine soil and groundwater conditions.

A RFI Work Plan will be developed and submitted subsequent to this report that provides more detail on the proposed test pits (including the number, location, and depth to proposed pits), the proposed monitoring wells that will be drilled, soil samples that may be needed, analysis parameters, and a contingency plan regarding the removal, management, and disposal of intact containers should they be found.

## 6.14 AOC 14 – EMI Interference



Electromagnetic induction conducted indicated the presence of a large area of deep and shallow voids within the subsurface of this area, which is located within the northeastern-most portion of the Site. This large subsurface void area may be attributed to disturbed soil/non-native material fill and/or the presence of buried material. Historical soil boring PSB-117 advanced along the western margin of this area in March 2016, indicated the presence of benzo(a)anthracene, naphthalene and phenanthrene in soil at concentrations exceeding Residential Volatilization to Indoor Air and/or Groundwater Surface Water Interface Protection criteria at a depth of 3 to 4 feet bsg.

### Conceptual Work Plan AOC 14:

Conceptual work includes the completion of three to four test pits within the area identified as deep and shallow voids. Soil samples will be collected from the interior of each test pit, midway up the sidewall, and at the bottom of the excavation, should impacted materials be encountered. Once the nature of the anomaly is identified, it may be necessary to conduct soil sampling immediately below any pit, tank, and/or sump. Additionally, approximately three permanent monitoring wells will be installed that are vertically screened to the base of the sand unit, and located along the northern, western and southeastern margins, as well as one to two soil borings within the central portion of the area to evaluate soil and groundwater concentrations for the presence of VOCs, SVOCs and metals.

The intent of the initial RFI Work Plan discussed in Section 8.0 is to begin investigation of AOC 14. Following that investigation a RFI Work Plan will be developed and submitted subsequent to this report that provides more detail on the proposed test pits (including the number, location, and depth to proposed pits), the proposed monitoring wells that will be drilled, soil borings, analysis parameters, information pertaining to the need for PFAS analysis, and a contingency plan regarding the removal, management, and disposal of intact containers should they be found.

## 6.15 AOC 15 – Former Disposal Pits/Depression Pond



Historical aerial photographs (particularly from the 1930s to the 1960s) identified areas of disturbance on the sparsely developed northern portion of the property. Indications of disturbed soil including a depression pond, soil stockpiles and potential disposal pits have been documented within this area. Although this portion of the property was largely undeveloped, its use for disposal purposes is evident. Subsurface investigations have indicated the presence of vinyl chloride in groundwater within this area. Specifically, vinyl chloride concentrations in groundwater collected from monitoring well MW-114 installed in March 2020 exceed Residential Volatilization to Indoor Air Pathway screening levels. Soil samples collected from MW-114 also exhibit concentrations of phenanthrene above Residential Volatilization to Indoor Air and Groundwater Surface Water Interface criteria. Historical soil samples for soil borings PSB-103, PSB-104, PSB-11, PSB-112, PSB-114 and PSB-115 advanced in June 2016 exceed various VOCs including, but not limited to, benzene, ethylbenzene, naphthalene, xylenes, and TMBs in excess of Residential and/or Non-Residential Volatilization to Indoor Air Pathway screening levels at depths ranging from 3 feet bsg along the eastern margin of the area and 13 feet bsg along the central and western margins of the area.

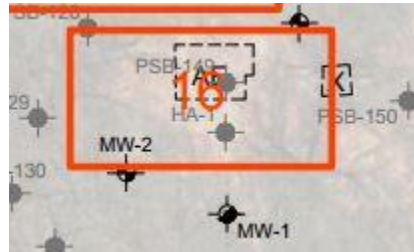
### Conceptual Work Plan AOC 15:

Conceptual work includes the completion of test pits within the areas identified as deep voids. Soil samples will be collected from the interior of each test pit, midway up the sidewall, and at the bottom of the excavation, should impacted materials be encountered. Once the nature of the anomaly is identified, it may be necessary to conduct soil sampling immediately below any pit, tank, and/or sump. Additionally, the installation of approximately four monitoring wells that are vertically screened to the base of the sand unit, and located along the northern, eastern, southern and western boundaries of this area, as well as three to four soil borings within the central portion of the area in order to adequately assess current soil and groundwater conditions. Two to three soil gas vapor points will be installed within the central portions of the area to assess soil vapor conditions. The investigative efforts described are focused on determining the extent of material contributing to groundwater contamination with the goal of designing a source removal effort.

A RFI Work Plan will be developed and submitted subsequent to this report that provides more detail on the proposed test pits (including the number, location, and depth to proposed pits), the proposed monitoring wells that will be drilled, analysis parameters, the investigative methods to be used in determining the extent of material contributing to groundwater contamination, and a

contingency plan regarding the removal, management, and disposal of intact containers should they be found.

### 6.16 AOC 16 – Former Heating Oil UST



Historical documentation indicated the presence of a former heating oil UST within the southern portion of the northwestern corner of the Site, however electromagnetic induction conducted did not indicate the presence of deep or shallow voids within this area. Subsurface investigation has been limited and potential impact from the former heating oil UST has not been investigated.

#### Conceptual Work Plan AOC 16:

Conceptual work includes the advancement of one to two soil borings, with conversion of at least one soil boring into a permanent monitoring well, within the location of the former heating oil UST. If the presence of heating oil constituents are detected in soil and/or groundwater, additional delineation wells may be warranted along the groundwater flow direction to determine if concentrations are migrating.

A RFI Work Plan will be developed and submitted subsequent to this report that provides more detail on the investigation.

### 6.17 AOC 17 – EMI Interference



Electromagnetic induction conducted indicated the presence of one deep void within the subsurface of this area, which is located within the southern portion of the northwestern corner of the Site. The presence of a deep void indicates the potential for buried material, disturbed subsurface soils and/or orphan underground tanks.

### Conceptual Work Plan AOC 17:

Conceptual work includes the completion of test pits within the area identified as a deep void. Soil samples will be collected from the interior of each test pit, midway up the sidewall, and at the bottom of the excavation, should impacted materials be encountered. Once the nature of the anomaly is identified, it may be necessary to conduct soil sampling immediately below any pit, tank, and/or sump. Based upon observed subsurface conditions encountered during the test pits, one to two soil borings, may be completed as permanent monitoring wells that are vertically screening to the base of the sand unit, and will be installed within the area to determine soil and groundwater conditions with respect to VOCs, SVOCs and metals.

A RFI Work Plan will be developed and submitted subsequent to this report that provides more detail on the proposed test pits (including the number, location, and depth to proposed pits), the proposed monitoring wells that will be drilled, analysis parameters, information pertaining to the need for PFAS analysis, and a contingency plan regarding the removal, management, and disposal of intact containers should they be found.

### 6.18 AOC 18 – EMI Interference – GPR Anomaly



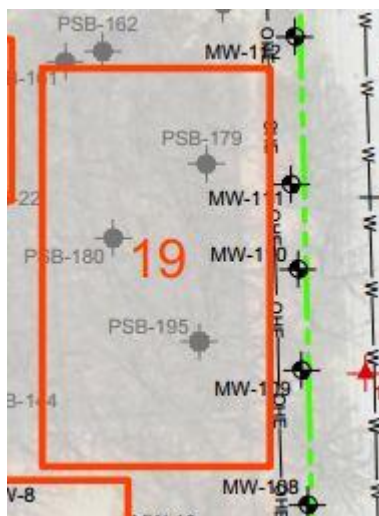
Electromagnetic induction conducted indicated the presence of approximately one large deep void within the subsurface of this area, which is located within the central northwestern portion of the Site. Historical documentation indicates the presence of a former UST pit within this area of concern, however subsurface investigation within this area has been very limited with only one soil boring completed. Specifically, historical soil boring PSB-139 was advanced in June 2016 and did not indicate concentrations exceeding Residential or Non-Residential criteria for constituents analyzed from the 6.5 to 7.5 feet bsg depth interval. Dissolved concentrations of metals have been detected in monitoring well MW-12, located to the southeast of the AOC.

### Conceptual Work Plan AOC 18:

Conceptual work includes the completion of test pits within the area identified as a deep void. Soil samples will be collected from the interior of each test pit, midway up the sidewall, and at the bottom of the excavation, should impacted materials be encountered. Once the nature of the anomaly is identified, it may be necessary to conduct soil sampling immediately below any pit, tank, and/or sump. Based upon observed subsurface conditions encountered during the test pits,

one to two soil borings may be completed as permanent monitoring wells that are vertically screened to the base of the sand layer, and will be installed within the area to determine soil and groundwater conditions. A RFI Work Plan will be developed and submitted subsequent to this report that provides more detail on the proposed test pits (including the number, location, and depth to proposed pits), the proposed monitoring wells that will be drilled, soil samples, analysis parameters, and a contingency plan regarding the removal, management, and disposal of intact containers should they be found.

### 6.19 AOC 19 – TCE



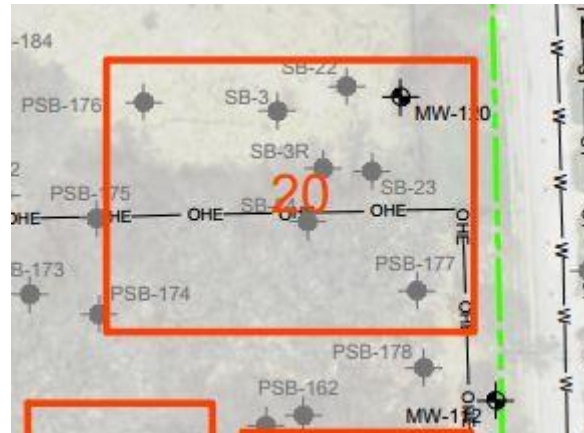
Dissolved concentrations of TCE are present in groundwater along the eastern margin of the Site. Specifically, TCE was detected in groundwater samples collected from monitoring wells MW-9, MW-10, MW-107 and MW-111, which are situated along the easternmost margin of the Site, along the western right-of-way (ROW) of Pinecrest Drive. Groundwater samples collected from these wells from October 2012 (MW-9 and MW-10) and April 2020 (MW-107 and MW-111) exceed Residential and/or Non-Residential Volatilization to Indoor Air Pathway screening levels. Additionally, soil vapor gas points installed within the eastern and western ROW of Pinecrest Drive by EGLE in August 2018 indicated soil vapor concentrations of TCE in excess of Volatilization to Indoor Air Pathway screening levels in soil gas points installed within the eastern ROW of Pinecrest Drive. However, soil vapor points installed within adjacent residential dwellings to the eastern ROW of Pinecrest Drive by EGLE did not indicate the presence of TCE in excess of Volatilization to Indoor Air Pathway screening levels.

#### Conceptual Work Plan AOC 19:

Conceptual work includes the installation of approximately eleven (11) soil gas vapor points along the eastern boundary of the Site in order to evaluate potential TCE soil gas concentrations. Refer to Section 8.0 – Interim Measures Work Plan for further discussion.

The intent of the initial RFI Work Plan discussed in Section 8.0 is to begin investigation of AOC 19. Following that investigation a RFI Work Plan will be developed and submitted subsequent to this report that provides more detail on the proposed monitoring wells that will be drilled, analysis parameters, and the additional work needed to identify the source of TCE vapors, if any. All parameters above the VIAP criteria will be included in additional investigation.

## 6.20 AOC 20 – TCE/SVOC/VOCs



Subsurface investigations conducted in this area indicate the presence of SVOCs and VOCs in soil and groundwater. Specifically, historical soil boring/temporary monitoring well SB/TMW-3R advanced in March 2016, indicated the presence of several SVOCs in soil including fluoranthene and phenanthrene above Residential Drinking Water Protection and/or Groundwater Surface Water Interface Protection criteria at a depth of 3 to 4 feet bsg. Groundwater samples collected in March 2016 from historical soil boring/temporary monitoring well SB/TMW-3 installed within this area indicated the presence of chlorobenzene in excess of Residential Volatilization to Indoor Air and Groundwater Surface Water Interface criteria.

### Conceptual Work Plan AOC 20:

Conceptual work includes investigation of soil gas and groundwater within this area to define the source of TCE, define any migration of contaminated water off-site, and to determine if volatiles such as TCE and chlorobenzene are present and/or migrating into the adjacent western ROW of Pinecrest Drive. Specifically, soil gas points will be installed to assist in narrowing the location of the source, as further discussed in Section 8.0 – Interim Measures Work Plan.

The intent of the initial RFI Work Plan discussed in Section 8.0 is to begin investigation of AOC 20. Following that investigation a RFI Work Plan will be developed and submitted subsequent to this report to propose necessary work needed to detail the source of vapors, if any, identify off-site migration, if any, and installation of monitoring wells.



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## 7.0 IMPLEMENTATION OF INTERIM MEASURES

### 7.1 Proposed Interim Measure

The Client intends to construct a commercial building on the southern portion of the Site within two to ten years. In addition to the commercial building, access roadway, new storm sewer, sanitary sewer, and municipal water connections will be installed. The Site, in its entirety, is surrounded by a chain link fence which prevents entrance to the Site by the general public. In order to mitigate the potential threat to human health and the environment the following interim/stabilization measures are being recommended.

#### *Institutional Controls*

Based on the current zoning, Site conditions and proposed future land use, an institutional control may be utilized and be recorded and run in perpetuity with the deed to restrict land use to nonresidential use. The use of the groundwater will be prohibited at the Site. Special handling of contaminated soils will be required during redevelopment.

#### *Engineering Controls*

Based upon the presence of soil vapor, engineering controls will be instituted at the time of construction to mitigate the risk for vapor migration into future onsite buildings.

#### *Additional Subsurface Investigation*

Further subsurface investigation is necessary to identify the extent of soil, groundwater, and soil gas impacts. Additional subsurface investigation conceptual items pertaining directly to the identified AOCs are presented in Section 6.0.

It should be noted that these interim measures are not a substitute for fully characterizing the nature and extent of contamination on and off-site. They are not to be considered as final corrective measures if reasonably achievable source removal or control measures would obviate the need for interim measures in the long term.

ATC proposes to install up to 19 soil gas points along the eastern Site boundary in order to assess the potential for migration of VOCs, including TCE, off-site. Soil vapor locations will be placed approximately every 50 feet along the eastern site boundary where there are no groundwater wells in accordance with EGLE's May 2013 Guidance Document for the Vapor Intrusion Pathway. The vapor points will be installed approximately 5 feet below grade. Soil gas points cannot be installed 10-15 feet below grade (as requested by EGLE) due to the depth to groundwater being approximately 8-10 feet below ground surface.

ATC will also conduct groundwater monitoring along the eastern border of the Site to assess the potential for off-site migration of contaminated groundwater. The groundwater monitoring will be conducted using 13 of the existing wells: MW-104 through MW-113 and MW-119 through MW-121.

## 8.0 INTERIM MEASURES - WORK PLAN

As noted in Section 6.0, the Site has been divided into 20 areas of concern (AOC), based upon geophysical anomalies, EMI survey data and/or soil, groundwater and/or soil gas concentrations within those specific areas. ATC will construct a Work Plan, customized to each individual AOC over the coming years. However, based upon the presence of TCE in soil gas along the eastern boundary of the Site, EGLE has requested a work plan to assess the data gaps along the eastern property boundary. Based on the 2019 and 2020 assessment performed by ATC and summarized in this report (**Figure 6**), groundwater has been assessed along the eastern margin of the Site. Soil gas sampling proposed will assess areas of groundwater concentrations that exceed screening levels or in areas likely to show off-site migration.

### 8.1 Proposed Work Plan – Eastern Property Boundary

The following proposed work plans are for the Eastern Property Boundary of the Site. Specific AOCs that will be included are AOCs 3, 9, 14, 19, and 20.

TCE concentrations have been identified in soil gas vapor points installed within the eastern right-of-way (ROW) of Pinecrest Drive by EGLE in August 2018. Specifically, TCE soil gas concentrations were detected in exceedance of Volatilization to Indoor Air Pathway screening levels at soil gas points 18VP-1 and 18VP-3. However, sub slab soil gas points installed by EGLE in 2018 within adjacent residential dwellings did not exhibit TCE concentrations in excess of Volatilization to Indoor Air Pathway screening levels. To that effect, an Interim Measures Work Plan has been devised to assess the concentrations of constituents of concern (COCs) within the eastern boundary of the Site, which may be migrating along the east-southeastern down gradient direction.

COCs along the eastern margin of the Site, which may pose an off-site migration concern, pertain mainly to VOCs including chlorobenzene, mercury, TCE and vinyl chloride. Specifically, TCE has been detected in dissolved groundwater concentrations in eastern boundary monitoring wells MW-10, MW-111 and MW-107 (inclusive of AOC 19) in exceedance of Residential and/or Non-Residential Volatilization to Indoor Air Pathway screening levels. Additionally, dissolved concentrations of chlorobenzene have been detected in soil boring/temporary monitoring well SB/TMW-3, which is along the northeastern Site boundary, west of monitoring well MW-120 (inclusive of AOC 20). Vinyl chloride was detected in temporary monitoring well/soil boring SB/TMW-02 which is located along the northeastern portion of the Site boundary at a concentration exceeding Volatilization to Indoor Air Pathway screening levels. Mercury was detected at adsorbed concentrations that exceed Volatilization to Indoor Air Pathway at soil boring SB-22, which is near the eastern boundary of the Site (inclusive of AOC 20), at a depth of 3 to 4 feet bgs.

ATC proposes to install eleven (11) soil gas points along the eastern Site boundary in order to assess the potential for migration of VOCs, including TCE, off-site (refer to **Figure 17** - Interim Measures Work Plan – Proposed Soil Gas Vapor Points Map in Appendix A for proposed soil gas point locations). Currently, no soil gas points exist along the eastern Site margin. As such, soil gas points were selected based upon existing known locations of VOC concentrations (especially TCE) in groundwater along the eastern Site boundary. Specifically, within the location of AOC 19 (located to the west of known TCE

exceedances in soil gas points 18VP-1 and 18-VP-3), dissolved concentrations of TCE in monitoring well monitoring wells MW-9 and MW-10 exceed Volatilization to Indoor Air Pathway screening levels. Additionally, areas to the north and south of AOC 19 (AOCs 20 and 3, respectively), will be investigated for the presence of soil gas due to the presence of chlorobenzene present in groundwater at historical soil boring/temporary monitoring well location SB/TMW-3 (inclusive of AOC 20) and the presence of TCE in groundwater located at monitoring well MW-107 (inclusive of AOC 3) at levels which exceed Volatilization to Indoor Air Pathway screening levels. Soil gas locations will be placed approximately every 50 feet along the eastern Site boundary. All soil gas vapor points will be installed in accordance with EGLE's May 2013 *Guidance Document for the Vapor Intrusion Pathway*. Consistent with previous EGLE soil gas points installed along the eastern and western right-of-way (ROW) of Pinecrest Drive, the probes will be installed approximately five feet below grade (based on the design of the prior points EGLE installed in the ROW so we can compare data). Based on the depth to groundwater (typically around ten (10) feet), deeper soil gas probes will not be able to be installed at greater depths than eight (8) feet below grade. The soil gas points will be first be advanced by direct push and/or hand auger clearance to a depth of at least 5 feet bgs. The soil gas vapor probe will be constructed with a 3/8-inch inner diameter brass barbed fitting assembly connected to a 4-inch long stainless steel screen. The brass fitting assembly will be surrounded by a silicone sleeve. The silicone sleeve will be slightly larger than the pilot hole to provide a seal between the stainless screen and top of the concrete. The soil gas points will be constructed of thermoplastic tubing with six-inch screens (0.10 inch slot size) surrounded by sand filter pack. The remaining well annulus will be sealed with bentonite to within one foot of ground surface and the soil gas monitor points will be fitted with petcock shut off valves and finished with steel flush-mounted well covers set in concrete pads in order to protect the vapor point from damage and corrosion.

Along with soil gas sampling, ATC will conduct groundwater sampling along the eastern border of the site. The sampling will take place in existing monitoring wells MW-104 through MW-113 and MW-119 through MW-121 and will evaluate potential off-site migration.

## 8.2 Sampling Methodology

Soil gas samples will be collected using techniques outlined in the EGLE document *Guidance Document for the Vapor Intrusion Pathway*. The samples will be collected using a constructed pathway between the soil vapor point and the Summa® canister. The pathway is created using plastic and Tygon® tubing, as well as plastic stopcocks allowing for the control of flow direction. In addition, a factory calibrated landfill gas meter is used to collect methane readings during soil gas sampling

Before the soil gas sampling is started, two separate quality assurance/quality control (QA/QC) tests will be conducted, the first being a helium shroud test. The helium shroud test uses a large plastic hood to cover the sample train and connections between the vapor pin and the Summa® canister. A tracer gas (high-grade helium) is then injected beneath the plastic hood; a grab sample of the air from the tubing located beneath the helium hood is then collected and checked for the presence of helium in the field using a helium detector, thus indicating whether or not a leak is present.

The second test used is known as a shut-in test. This test involves the extraction of air from the sample lines that creates a vacuum measured using a mercury (Hg) vacuum gauge to test the tightness of the

compression fittings on the sample train. Valves to the vapor pin and the Summa® canister are shut and air is extracted from the sampling lines, inducing a vacuum of approximately 10.0 inches of Hg. When all external valves are closed, the vacuum within the sample train should remain steady for at least one minute. The loss of vacuum pressure while performing the shut-in test indicates a leak and that the fittings need to be adjusted until the sample train can hold a steady vacuum pressure.

Once both QA/QC tests are successfully completed, soil gas located within the tubing is then purged and/or evacuated up to three times the tubing volume allowing for the collection of an undisturbed sample. The Summa® canisters are under negative pressure, so upon completion of the QA/QC tests and evacuation of soil gas within the tubing, the Summa® canisters are opened allowing for soil gas to be drawn in and collected. The soil gas samples will then be shipped to Pace Analytical (Pace) in Mount Juliet, Tennessee, for analysis of volatile organic compounds (VOCs) in accordance with United States Environmental Protection Agency (U.S. EPA) Compendium Method TO-15.

Mercury vapor will be screened using a Lumex Mercury Vapor Analyzer. Each soil vapor point will be purged using a lung pump sampler and tedlar bag for no more than 5 minutes not exceeding 200 ml/minute. The tedlar bag will then be connected to the Lumex and ATC will record the maximum and average mercury vapor reading.

ATC will conduct low-flow groundwater sampling at installed monitoring wells MW-104 through MW-113 and MW-119 through MW-121 depending on the needs of the investigation. Groundwater samples will be analyzed for the presence of VOCs, SVOCs, PFAS compounds, alcohols and metals, and tetraethyl lead.

During the sampling events, the groundwater samples will be collected using low flow, minimal drawdown sampling techniques. A bladder pump will be equipped with new 3/8 inch diameter PFAS free tubing. During the low-flow sampling activities, several indicator parameters, including temperature, specific conductivity, dissolved oxygen, pH, oxidation reduction potential, and turbidity, will be monitored and recorded every three to five minutes. The water level will also be monitored periodically to ensure that excessive water level drawdown does not occur. At each monitoring well, groundwater sample collection will proceed once indicator parameters have stabilized for three consecutive readings. The groundwater samples will be collected into laboratory-provided sample containers, placed into a cooler containing ice, and logged onto a project-specific chain-of-custody form.

Any new monitoring wells that are installed will be installed to the base of contamination or to the top of the clay layer in accordance with a Standard Operating Procedure approved by EGLE.

### **8.3 Data Quality, Evaluation and Reporting**

#### **Data Quality**

Data quality objectives are to obtain data that are sufficiently accurate and representative of site media that reliable assessment of exposure pathways and risks may be identified. Field data will be obtained in a consistent manner using standard protocols developed by the USEPA, EGLE, ASTM, or other appropriate developer of scientific methods. Laboratory data will be obtained in accordance with

standard protocols similarly developed, targeting lower analytical method detection limits less than the lowest applicable regulatory standards and levels of toxicological risk to the extent possible and data that are reproducible and verifiable, such as documented in EGLE's March 2016 *Application of Target Detection Limits and Designated Analytical Methods*. Where analytical results cannot be determined to the target levels, such as because of analytical interference, documentation of data limitations and effect on assessment conclusions will be evaluated. Data accuracy, reproducibility, and absence of cross-contamination will be evaluated using field and laboratory sample blanks, replicates, and standards.

### **Data Evaluation**

Soil vapor concentrations will be compared to EGLE soil gas Volatilization to Indoor Air Pathway screening levels determined in micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ). Quality assurance samples in the form of duplicates will be collected and analyzed every tenth sample.

### **Reporting**

An Interim Work Plan Investigation Report will be prepared and submitted to EGLE within 60 days of receipt of analytical data.

## **8.4 Public Involvement Plan**

Upon EGLE review and approval of the Interim Measures Work Plan, ATC will provide neighbors and other interested and involved parties to review available existing site reports and investigative plans and provide opportunity for questions and comments. This Public Involvement Plan (PIP) was prepared in general accordance with RCRA *Public Involvement Manual* (EPA/530-R-93-006, September 1993).

Because of limitations on public meetings and other gatherings imposed by the Governor's Executive Order (EO) 2020-21 and its amendments intended to help mitigate the spread of the COVID-19 virus, public meetings and other activities involving direct contact between the involved parties, regulators, and the public are prohibited or undesirable for the foreseeable future. Accordingly, this PIP envisions public involvement as consisting of the following activities until treatments and/or vaccinations become available to control the COVID-19 virus:

- ATC will work with EGLE to establish an online portal for public access to relevant available documents for review and for submittal of comments and questions. The online portal will identify appropriate contacts for further communication with involved parties and regulators, if desired.
- ATC will prepare Fact Sheets summarizing current conditions and proposed investigations, pending the development of corrective actions. Fact Sheets will be submitted to EGLE for review prior to public distribution and online posting.

Although the rules regarding public meetings and other activities involving direct contact are relaxing, the approach for public involvement/outreach via a maintained website should precede. In-person

public meetings can be held in the future if necessary, and if allowed by current governmental restrictions.

According to the latest U.S. Census demographic profile of Ferndale, more than 96% of the population is English-speaking, with the next largest ethnic population being Spanish-speaking (2%). Accordingly, no provisions for translation are anticipated at this time.

Should public meetings become safe and feasible, copies of site documents also will be made available through the Ferndale Public Library.

## 9.0 REFERENCES

Applied EcoSystems, Inc. (AE), November 26, 2019, *Proposal & Eastern Area Investigation Work Plan, Hayes Lemmerz (Former Ethyl Corp.) Site, 1600 West Eight Mile Road, Ferndale, Michigan*: Prepared for Pinecrest Holdings, LLC.

Applied EcoSystems, Inc. (AE), November 27, 2019, *RCRA Corrective Action Description of Current Conditions Report; Hayes Lemmerz (Former Ethyl Corp.) Site, 1600 West Eight Mile Road, Ferndale, Michigan*: Prepared for Pinecrest Holdings, LLC.

Neyer, Tiseo & Hindo Ltd., December 26, 1985, *Preliminary Site Assessment Investigation, Ethyl Corporation, Ferndale, Michigan*: Prepared for Oakland County Michigan Economic Development Group.

Neyer, Tiseo & Hindo Ltd., January 3, 1986, *Preliminary Site Assessment Investigation, Ethyl Corporation, Ferndale, Michigan*: Prepared for Oakland County Michigan Economic Development Group.

PM Environmental, November 3, 2015, *Phase I Environmental Site Assessment of the Vacant Industrial Property Located at 1600 West 8 Mile Road, Ferndale, Michigan*: Prepared for CG Emerson Real Estate Group.

PM Environmental, June 17, 2016, *Baseline Environmental Assessment, 1600 West 8 Mile Road, Ferndale, Michigan*: Prepared for Pinecrest Holdings, LLC.

PM Environmental, June 16, 2016, *Phase I Environmental Site Assessment Update, 1600 West 8 Mile Road, Ferndale, Michigan*: Prepared for CG Emerson Real Estate Group.

PM Environmental, November 14, 2016, *Site Investigation Report, 1600 West 8 Mile Road, Ferndale, Michigan*: Prepared for Pinecrest Holdings, LLC.

PM Environmental, May 24, 2019, *Phase I Environmental Site Assessment; 1600 West Eight Mile Road and Identified as Parcel ID 24-25-33-451-005, Ferndale, Michigan*: Prepared for Axle of Dearborn.

PM Environmental, June 12, 2019, *Baseline Environmental Assessment; 1600 West Eight Mile Road and Identified as Parcel ID 24-25-33-451-005, Ferndale, Michigan*: Prepared for Axle of Dearborn.

RJN Environmental, November 27, 2012, *Phase I Environmental Site Assessment, Former Ethyl Corporation Laboratory, 1600 West Eight Mile Road, City of Ferndale, Oakland County, Michigan*: Prepared for Cedan Holdings VI, LLC.

RJN Environmental, December 5, 2012, *Baseline Environmental Assessment, 1600 West Eight Mile Road, City of Ferndale, Oakland County, Michigan*: Prepared for Cedan Holdings VI, LLC.

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RJN Environmental, December 18, 2012, *Phase II Environmental Site Assessment, Former Ethyl Corporation Laboratories, 1600 West Eight Mile Road, City of Ferndale, Oakland County, Michigan*: Prepared for Cedan Holdings VI, LLC.

RJN Environmental, Inc., November 1, 2013, *Phase II Environmental Site Assessment, North Half Former Ethyl Corporation Laboratories, 1600 West Eight Mile Road, City of Ferndale, Oakland County, Michigan*: Prepared for Cedan Holdings VI, LLC.

City of Ferndale Zoning Map (ArcGIS) <https://www.ferndalemi.gov/services/planning-zoning>

City of Ferndale Master Plan, updated January 2017 <https://www.ferndalemi.gov/resources/project-3>

U.S.D.A. Web Soil Survey <http://websoilsurvey.nrcs.usda.gov/app/>

USFWS on-line Wetland Mapper: <http://www.fws.gov/wetlands/data/Mapper.html>

EGLE Water Well Viewer: <https://www.mcgi.state.mi.us/waterwellviewer/>

Wellogic Water Well Record Search:

<https://www.egle.state.mi.us/wellogic/Login.aspx?ReturnUrl=%2fwellogic%2fdefault.aspx>



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## 10.0 SIGNATURES

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



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Robert Allor  
Staff Geologist

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September 21, 2021  
Date



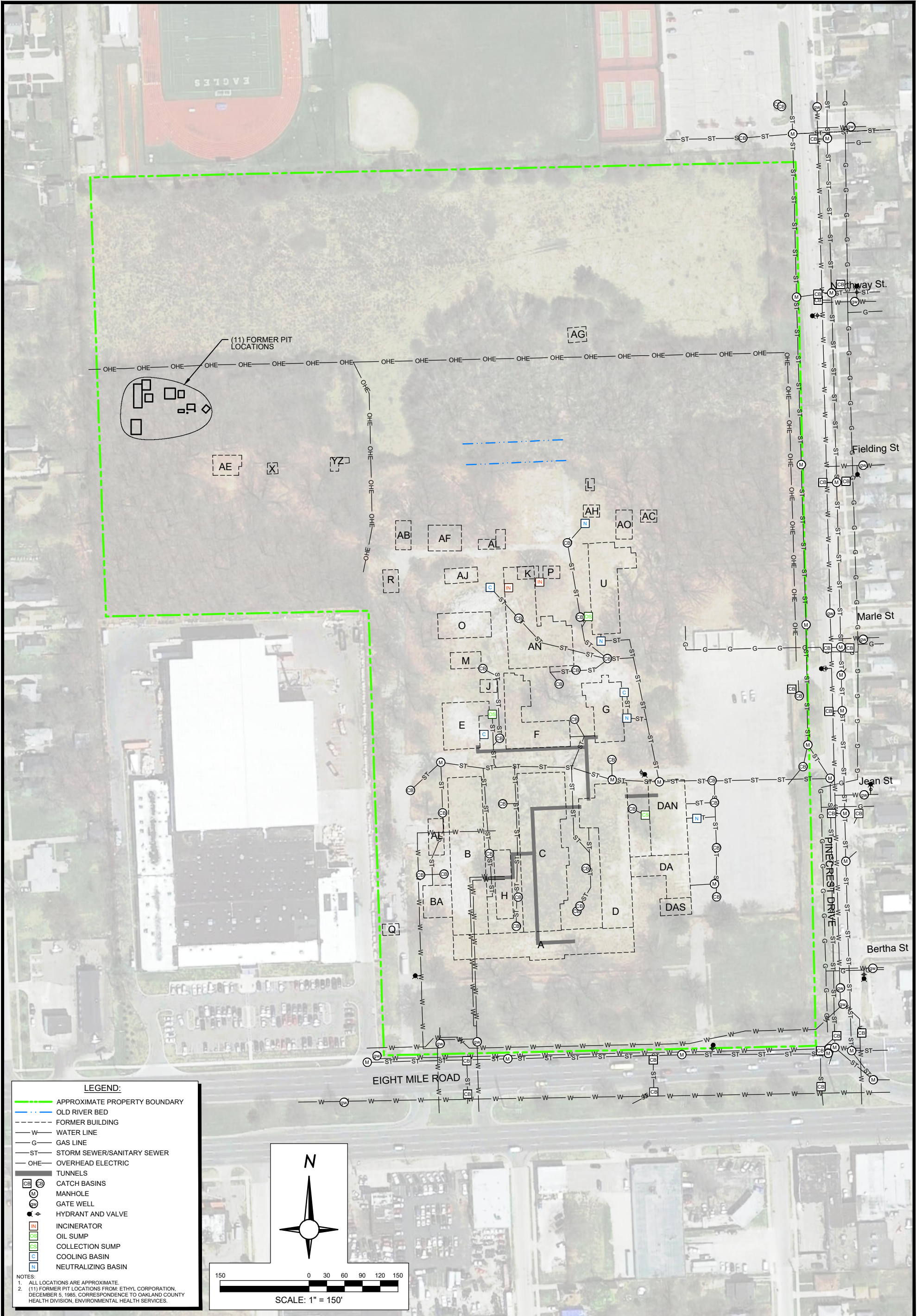
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Andrew Stuart  
National Program Director

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September 21, 2021  
Date

## **APPENDIX A**



**LEGEND:**

- APPROXIMATE PROPERTY BOUNDARY
- OLD RIVER BED
- FORMER BUILDING
- W — WATER LINE
- G — GAS LINE
- ST — STORM SEWER/SANITARY SEWER
- OHE — OVERHEAD ELECTRIC
- TUNNELS
- CB CATCH BASINS
- M MANHOLE
- GW GATE WELL
- HV HYDRANT AND VALVE
- I INCINERATOR
- OS OIL SUMP
- CS COLLECTION SUMP
- CB COOLING BASIN
- N NEUTRALIZING BASIN

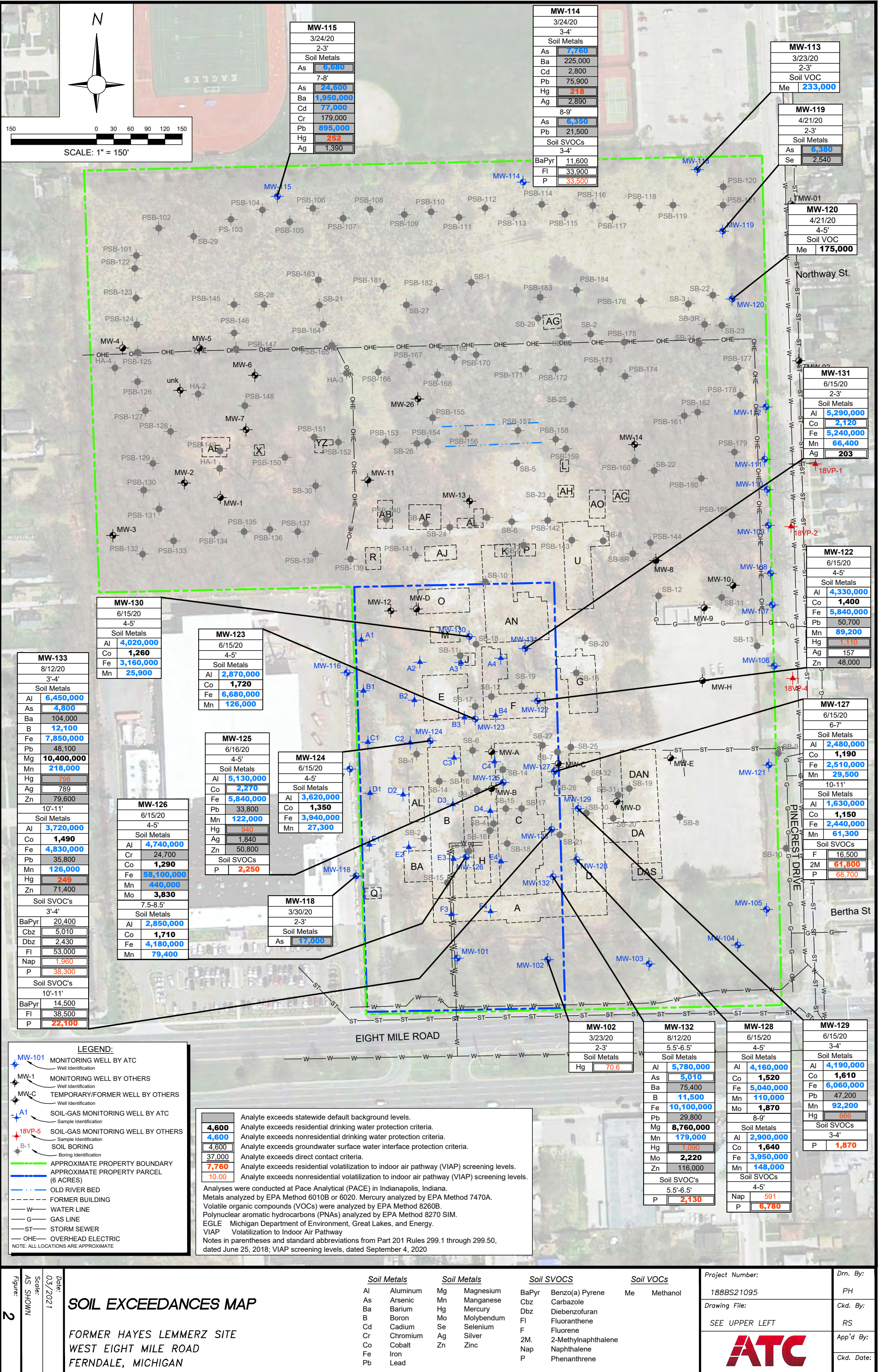
**NOTES:**

1. ALL LOCATIONS ARE APPROXIMATE.
2. (11) FORMER PIT LOCATIONS FROM: ETHYL CORPORATION, DECEMBER 5, 1985. CORRESPONDENCE TO OAKLAND COUNTY HEALTH DIVISION, ENVIRONMENTAL HEALTH SERVICES.

N

SCALE: 1" = 150'

|                  |                 |   |                                 |                |
|------------------|-----------------|---|---------------------------------|----------------|
| Figure: <b>1</b> | Date: 09/2021   | <h2 style="margin: 0;">SITE MAP</h2> <p style="margin: 0;">FORMER HAYES LEMMERZ SITE<br/>WEST EIGHT MILE ROAD<br/>FERNDAL, MICHIGAN</p> | Project Number:<br>NPDAX19001   | Dwn. By:<br>PH |
|                  | Scale: AS SHOWN |   | Drawing File:<br>SEE UPPER LEFT | Ckd. By:<br>RA |
|                  | Date:           |   |                                 | App'd. By:     |
|                  | Date:           |   | Date:                           | Date:          |



|               |           |
|---------------|-----------|
| <b>MW-115</b> |           |
| 3/24/20       |           |
| 2-3'          |           |
| Soil Metals   |           |
| As            | 5,580     |
| 7-8'          |           |
| As            | 24,600    |
| Ba            | 1,950,000 |
| Cd            | 77,000    |
| Cr            | 179,000   |
| Pb            | 895,000   |
| Hg            | 252       |
| Ag            | 1,390     |

|               |         |
|---------------|---------|
| <b>MW-114</b> |         |
| 3/24/20       |         |
| 3-4'          |         |
| Soil Metals   |         |
| As            | 7,760   |
| Ba            | 225,000 |
| Cd            | 2,800   |
| Pb            | 75,900  |
| Hg            | 218     |
| Ag            | 2,890   |
| 8-9'          |         |
| As            | 6,350   |
| Pb            | 21,500  |
| Soil SVOCs    |         |
| 3-4'          |         |
| BaPyr         | 11,600  |
| Fl            | 33,900  |
| P             | 33,500  |

|               |         |
|---------------|---------|
| <b>MW-113</b> |         |
| 3/23/20       |         |
| 2-3'          |         |
| Soil VOC      |         |
| Me            | 233,000 |

|               |       |
|---------------|-------|
| <b>MW-119</b> |       |
| 4/21/20       |       |
| 2-3'          |       |
| Soil Metals   |       |
| As            | 6,380 |
| Se            | 2,540 |

|               |         |
|---------------|---------|
| <b>MW-120</b> |         |
| 4/21/20       |         |
| 4-5'          |         |
| Soil VOC      |         |
| Me            | 175,000 |

|               |           |
|---------------|-----------|
| <b>MW-131</b> |           |
| 6/15/20       |           |
| 2-3'          |           |
| Soil Metals   |           |
| Al            | 5,290,000 |
| Co            | 2,120     |
| Fe            | 5,240,000 |
| Mn            | 66,400    |
| Ag            | 203       |

|               |           |
|---------------|-----------|
| <b>MW-122</b> |           |
| 6/15/20       |           |
| 4-5'          |           |
| Soil Metals   |           |
| Al            | 4,330,000 |
| Co            | 1,400     |
| Fe            | 5,840,000 |
| Pb            | 50,700    |
| Mn            | 89,200    |
| Hg            | 1,110     |
| Ag            | 157       |
| Zn            | 48,000    |

|               |           |
|---------------|-----------|
| <b>MW-127</b> |           |
| 6/15/20       |           |
| 6-7'          |           |
| Soil Metals   |           |
| Al            | 2,480,000 |
| Co            | 1,190     |
| Fe            | 2,510,000 |
| Mn            | 29,500    |
| 10'-11'       |           |
| Soil Metals   |           |
| Al            | 1,630,000 |
| Co            | 1,150     |
| Fe            | 2,440,000 |
| Mn            | 61,300    |
| Soil SVOCs    |           |
| F             | 16,500    |
| 2M            | 61,800    |
| P             | 68,700    |

|               |           |
|---------------|-----------|
| <b>MW-130</b> |           |
| 6/15/20       |           |
| 4-5'          |           |
| Soil Metals   |           |
| Al            | 4,020,000 |
| Co            | 1,260     |
| Fe            | 3,160,000 |
| Mn            | 25,900    |

|               |           |
|---------------|-----------|
| <b>MW-123</b> |           |
| 6/15/20       |           |
| 4-5'          |           |
| Soil Metals   |           |
| Al            | 2,870,000 |
| Co            | 1,720     |
| Fe            | 6,680,000 |
| Mn            | 126,000   |

|               |           |
|---------------|-----------|
| <b>MW-125</b> |           |
| 6/16/20       |           |
| 4-5'          |           |
| Soil Metals   |           |
| Al            | 5,130,000 |
| Co            | 2,270     |
| Fe            | 5,840,000 |
| Pb            | 33,800    |
| Mn            | 122,000   |
| Hg            | 940       |
| Ag            | 1,840     |
| Zn            | 50,800    |
| Soil SVOCs    |           |
| P             | 2,250     |

|               |           |
|---------------|-----------|
| <b>MW-124</b> |           |
| 6/15/20       |           |
| 4-5'          |           |
| Soil Metals   |           |
| Al            | 3,620,000 |
| Co            | 1,350     |
| Fe            | 3,940,000 |
| Mn            | 27,300    |

|               |            |
|---------------|------------|
| <b>MW-126</b> |            |
| 6/15/20       |            |
| 4-5'          |            |
| Soil Metals   |            |
| Al            | 4,740,000  |
| Cr            | 24,700     |
| Co            | 1,290      |
| Fe            | 58,100,000 |
| Mn            | 440,000    |
| Mo            | 3,830      |
| Soil SVOC's   |            |
| 7.5-8.5'      |            |
| Al            | 2,850,000  |
| Co            | 1,710      |
| Fe            | 4,180,000  |
| Mn            | 79,400     |

|               |        |
|---------------|--------|
| <b>MW-118</b> |        |
| 3/30/20       |        |
| 2-3'          |        |
| Soil Metals   |        |
| As            | 17,000 |

|               |      |
|---------------|------|
| <b>MW-102</b> |      |
| 3/23/20       |      |
| 2-3'          |      |
| Soil Metals   |      |
| Hg            | 70.6 |

|               |            |
|---------------|------------|
| <b>MW-132</b> |            |
| 8/12/20       |            |
| 5.5'-6.5'     |            |
| Soil Metals   |            |
| Al            | 5,780,000  |
| As            | 5,010      |
| Ba            | 75,400     |
| B             | 11,500     |
| Fe            | 10,100,000 |
| Pb            | 29,800     |
| Mg            | 8,760,000  |
| Mn            | 179,000    |
| Hg            | 1,090      |
| Mo            | 2,220      |
| Zn            | 116,000    |
| Soil SVOC's   |            |
| 5.5'-6.5'     |            |
| P             | 2,130      |

|               |           |
|---------------|-----------|
| <b>MW-128</b> |           |
| 6/15/20       |           |
| 4-5'          |           |
| Soil Metals   |           |
| Al            | 4,160,000 |
| Co            | 1,520     |
| Fe            | 5,040,000 |
| Mn            | 110,000   |
| Mo            | 1,870     |
| 8-9'          |           |
| Soil Metals   |           |
| Al            | 2,900,000 |
| Co            | 1,640     |
| Fe            | 3,950,000 |
| Mn            | 148,000   |
| Soil SVOCs    |           |
| 4-5'          |           |
| Nap           | 591       |
| P             | 6,780     |

|               |           |
|---------------|-----------|
| <b>MW-129</b> |           |
| 6/15/20       |           |
| 3-4'          |           |
| Soil Metals   |           |
| Al            | 4,190,000 |
| Co            | 1,610     |
| Fe            | 6,060,000 |
| Pb            | 47,200    |
| Mn            | 92,200    |
| Hg            | 666       |
| Soil SVOCs    |           |
| 3-4'          |           |
| P             | 1,870     |

|               |            |
|---------------|------------|
| <b>MW-133</b> |            |
| 8/12/20       |            |
| 3-4'          |            |
| Soil Metals   |            |
| Al            | 6,450,000  |
| As            | 4,800      |
| Ba            | 104,000    |
| B             | 12,100     |
| Fe            | 7,850,000  |
| Pb            | 48,100     |
| Mg            | 10,400,000 |
| Mn            | 218,000    |
| Hg            | 798        |
| Ag            | 789        |
| Zn            | 79,600     |
| 10'-11'       |            |
| Soil SVOC's   |            |
| BaPyr         | 20,400     |
| Cbz           | 5,010      |
| Dbz           | 2,430      |
| Fl            | 53,000     |
| Nap           | 1,960      |
| P             | 38,300     |
| Soil SVOC's   |            |
| 10'-11'       |            |
| BaPyr         | 14,500     |
| Fl            | 38,500     |
| P             | 22,100     |

**LEGEND:**

- MW-101 MONITORING WELL BY ATC
- MW-1 MONITORING WELL BY OTHERS
- MW-C TEMPORARY/FORMER WELL BY OTHERS
- A1 SOIL-GAS MONITORING WELL BY ATC
- 18VP-5 SOIL-GAS MONITORING WELL BY OTHERS
- B-1 SOIL BORING
- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE PROPERTY PARCEL (6 ACRES)
- OLD RIVER BED
- FORMER BUILDING
- WATER LINE
- GAS LINE
- STORM SEWER
- OVERHEAD ELECTRIC

NOTE: ALL LOCATIONS ARE APPROXIMATE

4,600 Analyte exceeds statewide default background levels.  
 4,600 Analyte exceeds residential drinking water protection criteria.  
 4,600 Analyte exceeds nonresidential drinking water protection criteria.  
 4,600 Analyte exceeds groundwater surface water interface protection criteria.  
 37,000 Analyte exceeds direct contact criteria.  
 7,760 Analyte exceeds residential volatilization to indoor air pathway (VIAP) screening levels.  
 10.00 Analyte exceeds nonresidential volatilization to indoor air pathway (VIAP) screening levels.

Analyses were conducted at Pace Analytical (PACE) in Indianapolis, Indiana. Metals analyzed by EPA Method 6010B or 6020. Mercury analyzed by EPA Method 7470A. Volatile organic compounds (VOCs) were analyzed by EPA Method 8260B. Polynuclear aromatic hydrocarbons (PNAs) analyzed by EPA Method 8270 SIM. EGLE Michigan Department of Environment, Great Lakes, and Energy. VIAP Volatilization to Indoor Air Pathway. Notes in parentheses and standard abbreviations from Part 201 Rules 299.1 through 299.50, dated June 25, 2018; VIAP screening levels, dated September 4, 2020

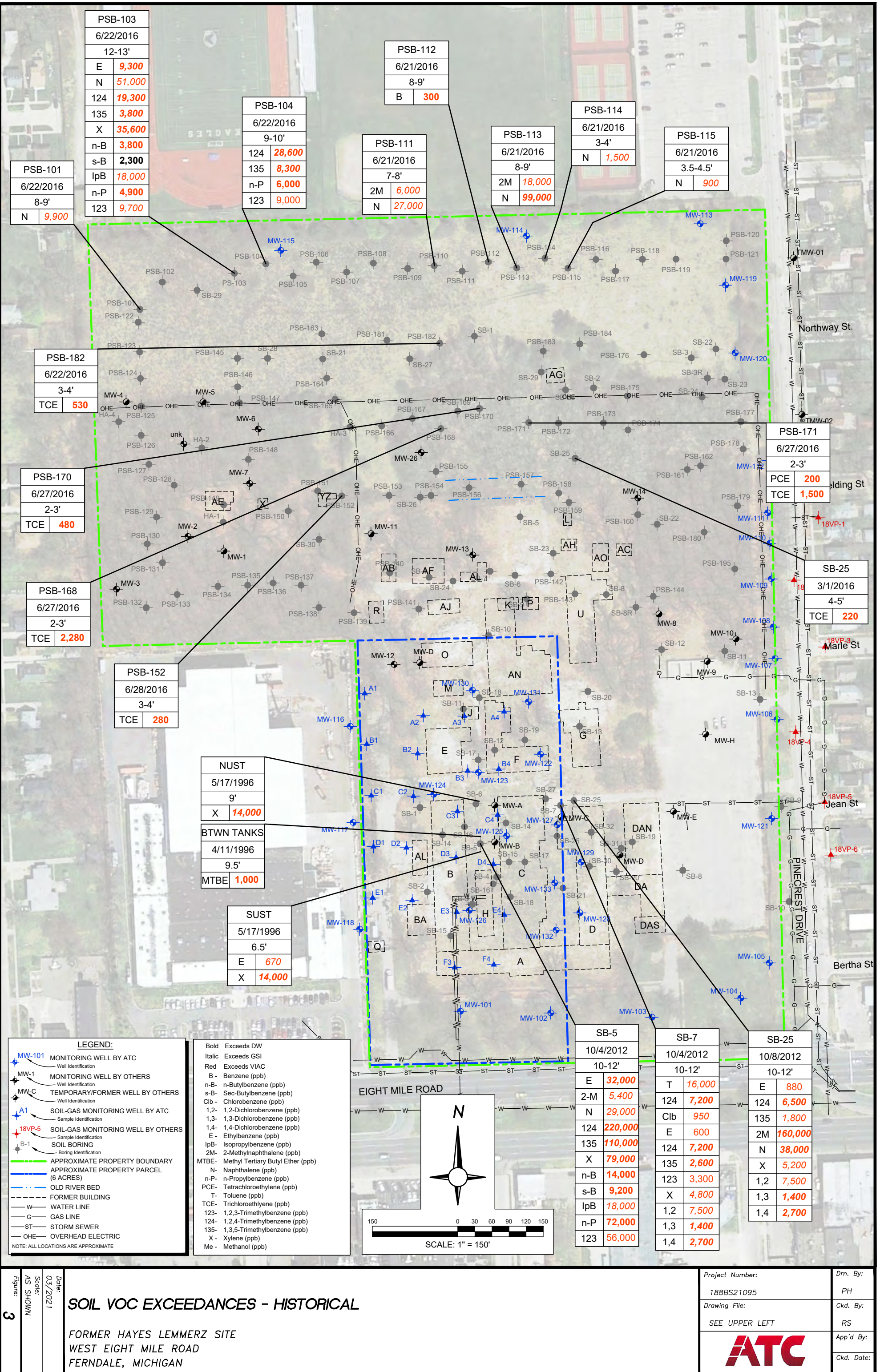
| Soil Metals | Soil Metals   | Soil SVOCs             | Soil VOCs   |
|-------------|---------------|------------------------|-------------|
| Al Aluminum | Mg Magnesium  | BaPyr Benzo(a) Pyrene  | Me Methanol |
| As Arsenic  | Mn Manganese  | Cbz Carbazole          |             |
| Ba Barium   | Hg Mercury    | Dbz Diebenzofuran      |             |
| B Boron     | Mo Molybdenum | Fl Fluoranthene        |             |
| Cd Cadmium  | Se Selenium   | F Fluorene             |             |
| Cr Chromium | Ag Silver     | 2M 2-Methylnaphthalene |             |
| Co Cobalt   | Zn Zinc       | Nap Naphthalene        |             |
| Fe Iron     |               | P Phenanthrene         |             |
| Pb Lead     |               |                        |             |

Project Number: 188BS21095  
 Drawing File: SEE UPPER LEFT

Drn. By: PH  
 Ckd. By: RS  
 App'd By:  
 Ckd. Date:

Date: 03/2021  
 Scale: AS SHOWN  
 Figure: 2

**SOIL EXCEEDANCES MAP**  
 FORMER HAYES LEMMERZ SITE  
 WEST EIGHT MILE ROAD  
 FERNDALE, MICHIGAN

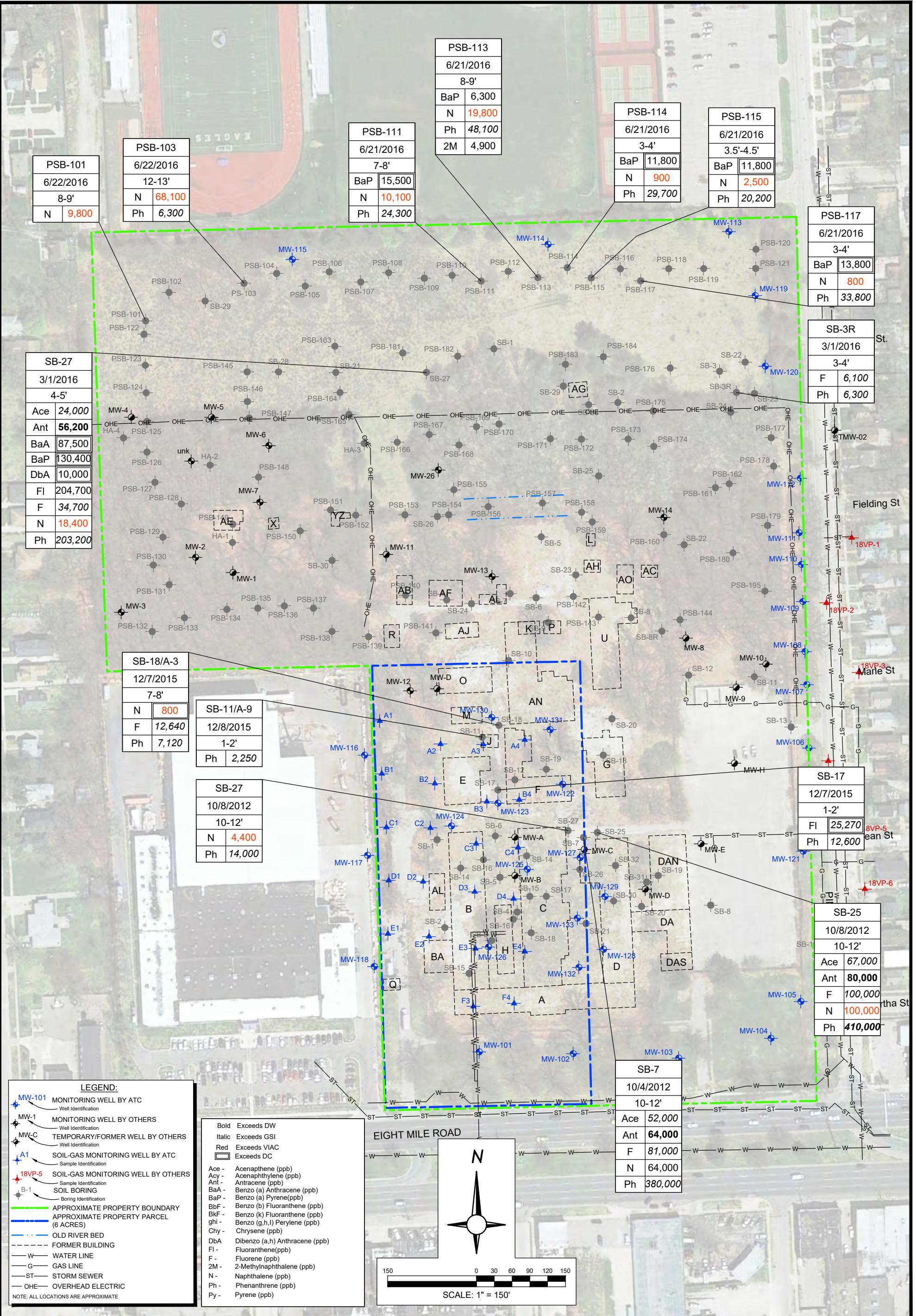


**SOIL VOC EXCEEDANCES - HISTORICAL**

FORMER HAYES LEMMERZ SITE  
WEST EIGHT MILE ROAD  
FERNDAL, MICHIGAN

|                                 |                |
|---------------------------------|----------------|
| Project Number:<br>188BS21095   | Dwn. By:<br>PH |
| Drawing File:<br>SEE UPPER LEFT | Ckd. By:<br>RS |
| <b>ATC</b>                      | App'd. By:     |
|                                 | Ckd. Date:     |

Date: 03/2021  
Scale: AS SHOWN  
Figure: 3



**LEGEND:**

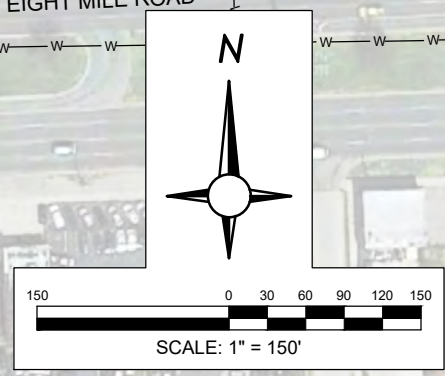
- MW-101 MONITORING WELL BY ATC
- MW-1 MONITORING WELL BY OTHERS
- MW-C TEMPORARY/FORMER WELL BY OTHERS
- A1 SOIL-GAS MONITORING WELL BY ATC
- 18VP-5 SOIL-GAS MONITORING WELL BY OTHERS
- B-1 SOIL BORING
- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE PROPERTY PARCEL (6 ACRES)
- OLD RIVER BED
- FORMER BUILDING
- W WATER LINE
- G GAS LINE
- ST STORM SEWER
- OHE OVERHEAD ELECTRIC

NOTE: ALL LOCATIONS ARE APPROXIMATE

|               |              |
|---------------|--------------|
| <b>Bold</b>   | Exceeds DW   |
| <i>Italic</i> | Exceeds GSI  |
| <b>Red</b>    | Exceeds VIAC |
| <b>Grey</b>   | Exceeds DC   |

|       |                                |
|-------|--------------------------------|
| Ace - | Acenaphthene (ppb)             |
| Acy - | Acenaphthylene (ppb)           |
| Ant - | Antracene (ppb)                |
| BaA - | Benzo (a) Anthracene (ppb)     |
| BaP - | Benzo (a) Pyrene (ppb)         |
| BbF - | Benzo (b) Fluoranthene (ppb)   |
| BkF - | Benzo (k) Fluoranthene (ppb)   |
| ghi - | Benzo (g,h,i) Perylene (ppb)   |
| Chy - | Chrysene (ppb)                 |
| DbA - | Dibenzo (a,h) Anthracene (ppb) |
| Fl -  | Fluoranthene (ppb)             |
| F -   | Fluorene (ppb)                 |
| 2M -  | 2-Methylnaphthalene (ppb)      |
| N -   | Naphthalene (ppb)              |
| Ph -  | Phenanthrene (ppb)             |
| Py -  | Pyrene (ppb)                   |

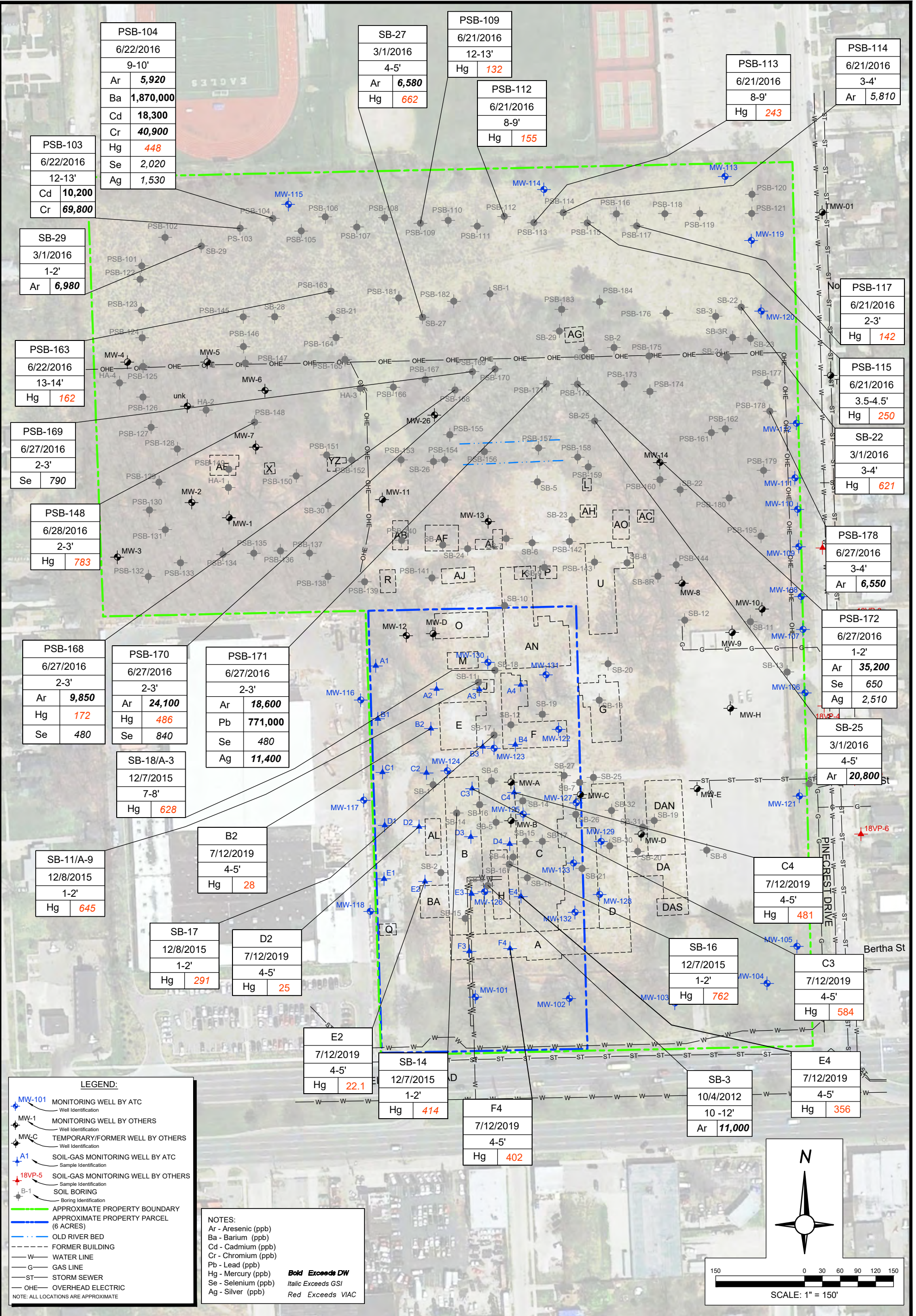


Date: 03/2021  
 Scale: AS SHOWN  
 Figure: 4

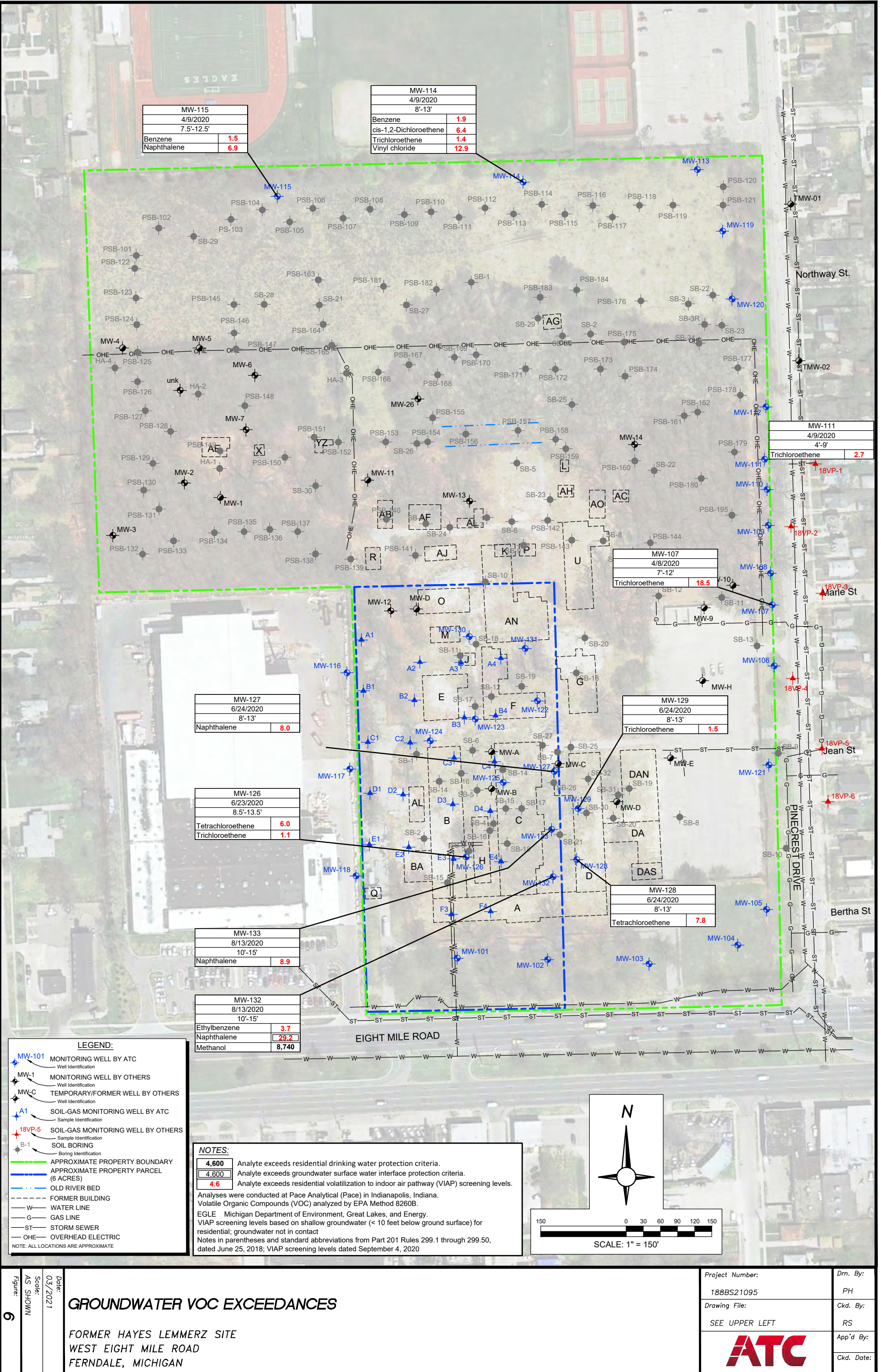
**SOIL SVOC EXCEEDANCES - HISTORICAL**

FORMER HAYES LEMMERZ SITE  
 WEST EIGHT MILE ROAD  
 FERNDAL, MICHIGAN

|                                 |                |
|---------------------------------|----------------|
| Project Number:<br>188BS21095   | Drn. By:<br>PH |
| Drawing File:<br>SEE UPPER LEFT | Ckd. By:<br>RS |
| <b>ATC</b>                      |                |
|                                 | App'd By:      |
|                                 | Ckd. Date:     |



|                  |                 |  |                                 |                |            |
|------------------|-----------------|--|---------------------------------|----------------|------------|
| <p>Figure: 5</p> | Date: 03/2021   | <h2>SOIL METAL EXCEEDANCES - HISTORICAL</h2> <p>FORMER HAYES LEMMERZ SITE<br/>WEST EIGHT MILE ROAD<br/>FERNDAL, MICHIGAN</p> | Project Number:<br>188BS21095   | Drn. By:<br>PH |            |
|                  | Scale: AS SHOWN |  | Drawing File:<br>SEE UPPER LEFT | Ckd. By:<br>RS |            |
|                  | Date: 03/2021   |  |                                 |                | App'd By:  |
|                  |                 |  |                                 |                | Ckd. Date: |



|             |     |
|-------------|-----|
| MW-115      |     |
| 4/9/2020    |     |
| 7.5'-12.5'  |     |
| Benzene     | 1.5 |
| Naphthalene | 6.9 |

|                        |      |
|------------------------|------|
| MW-114                 |      |
| 4/9/2020               |      |
| 8'-13'                 |      |
| Benzene                | 1.9  |
| cis-1,2-Dichloroethene | 6.4  |
| Trichloroethene        | 1.4  |
| Vinyl chloride         | 12.9 |

|                 |     |
|-----------------|-----|
| MW-111          |     |
| 4/9/2020        |     |
| 4'-9'           |     |
| Trichloroethene | 2.7 |

|                 |      |
|-----------------|------|
| MW-107          |      |
| 4/8/2020        |      |
| 7'-12'          |      |
| Trichloroethene | 18.5 |

|             |     |
|-------------|-----|
| MW-127      |     |
| 6/24/2020   |     |
| 8'-13'      |     |
| Naphthalene | 8.0 |

|                   |     |
|-------------------|-----|
| MW-126            |     |
| 6/23/2020         |     |
| 8.5'-13.5'        |     |
| Tetrachloroethene | 6.0 |
| Trichloroethene   | 1.1 |

|             |     |
|-------------|-----|
| MW-133      |     |
| 8/13/2020   |     |
| 10'-15'     |     |
| Naphthalene | 8.9 |

|              |       |
|--------------|-------|
| MW-132       |       |
| 8/13/2020    |       |
| 10'-15'      |       |
| Ethylbenzene | 3.7   |
| Naphthalene  | 29.2  |
| Methanol     | 8,740 |

**LEGEND:**

- MW-101 MONITORING WELL BY ATC
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- 18VP-5 SOIL-GAS MONITORING WELL BY OTHERS
- B-1 SOIL BORING
- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE PROPERTY PARCEL (6 ACRES)
- OLD RIVER BED
- FORMER BUILDING
- WATER LINE
- GAS LINE
- STORM SEWER
- OVERHEAD ELECTRIC

NOTE: ALL LOCATIONS ARE APPROXIMATE

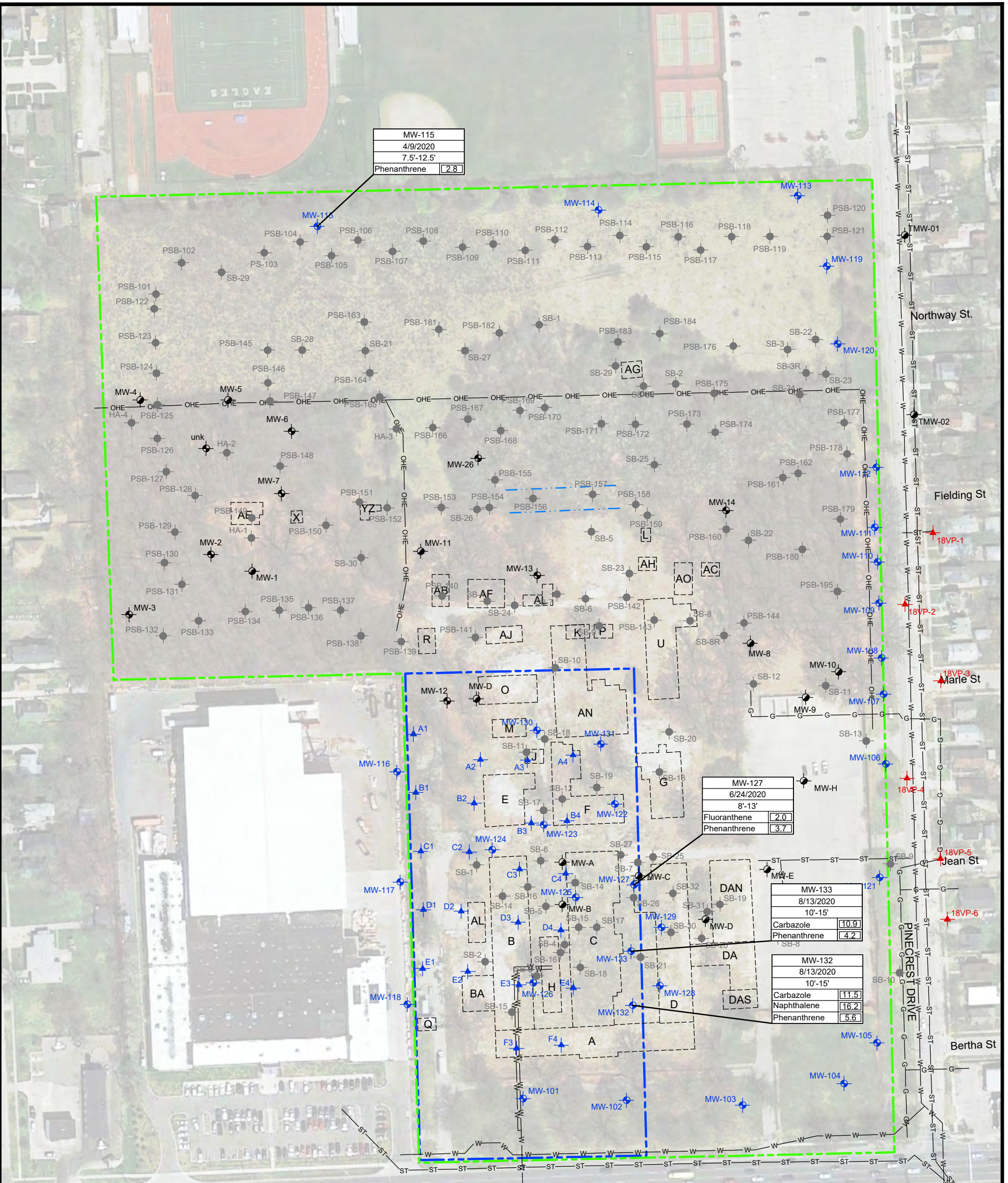
**NOTES:**

|       |   |
|-------|---|
| 4,600 | Analyte exceeds residential drinking water protection criteria.                           |
| 4,600 | Analyte exceeds groundwater surface water interface protection criteria.                  |
| 4.6   | Analyte exceeds residential volatilization to indoor air pathway (VIAP) screening levels. |

Analyses were conducted at Pace Analytical (Pace) in Indianapolis, Indiana. Volatile Organic Compounds (VOC) analyzed by EPA Method 8260B. EGLE Michigan Department of Environment, Great Lakes, and Energy. VIAP screening levels based on shallow groundwater (< 10 feet below ground surface) for residential; groundwater not in contact. Notes in parentheses and standard abbreviations from Part 201 Rules 299.1 through 299.50, dated June 25, 2018; VIAP screening levels dated September 4, 2020

**SCALE: 1" = 150'**





|              |
|--------------|
| MW-115       |
| 4/9/2020     |
| 7.5'-12.5'   |
| Phenanthrene |
| 2.8          |

|              |
|--------------|
| MW-127       |
| 6/24/2020    |
| 8'-13'       |
| Fluoranthene |
| 2.0          |
| Phenanthrene |
| 3.7          |

|              |
|--------------|
| MW-133       |
| 8/13/2020    |
| 10'-15'      |
| Carbazole    |
| 10.9         |
| Phenanthrene |
| 4.2          |

|              |
|--------------|
| MW-132       |
| 8/13/2020    |
| 10'-15'      |
| Carbazole    |
| 11.5         |
| Naphthalene  |
| 16.2         |
| Phenanthrene |
| 5.6          |

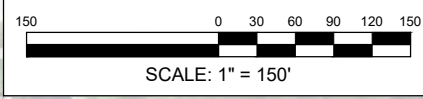
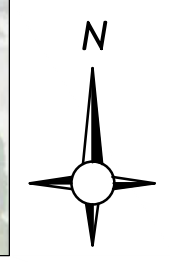
**LEGEND:**

- MONITORING WELL BY ATC
- MONITORING WELL BY OTHERS
- TEMPORARY/FORMER WELL BY OTHERS
- SOIL-GAS MONITORING WELL BY ATC
- SOIL-GAS MONITORING WELL BY OTHERS
- SOIL BORING
- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE PROPERTY PARCEL (6 ACRES)
- OLD RIVER BED
- FORMER BUILDING
- WATER LINE
- GAS LINE
- STORM SEWER
- OVERHEAD ELECTRIC

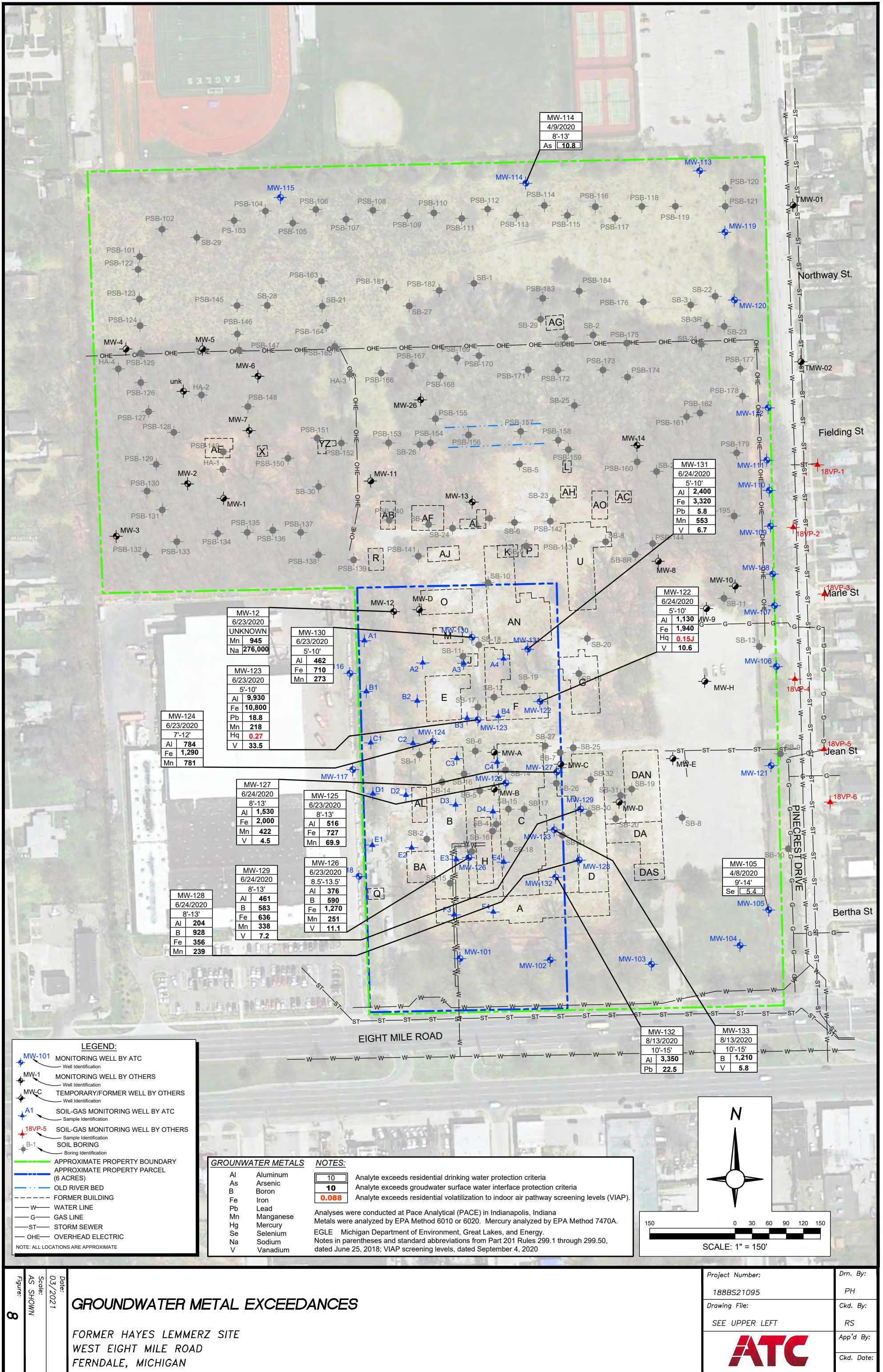
NOTE: ALL LOCATIONS ARE APPROXIMATE

**NOTES:**

**2.0** Analyte exceeds groundwater surface water interface protection criteria. Analyses were conducted at Pace Analytical (PACE) in Indianapolis, Indiana polynuclear aromatic hydrocarbons (pnas) were analyzed by epa method 8270 sim 40e. EGLE Michigan Department of Environment, Great Lakes, and Energy. Notes in parentheses and standard abbreviations from Part 201 Rules 299.1 through 299.50, dated June 25, 2018; VIAP screening levels dated September 4, 2020



|                     |                    |   |                                 |                |            |
|---------------------|--------------------|---|---------------------------------|----------------|------------|
| Figure:<br><b>7</b> | Date:<br>03/2021   | <h2 style="margin: 0;">GROUNDWATER SVOC EXCEEDANCES</h2> <p style="margin: 5px 0 0 0;">FORMER HAYES LEMMERZ SITE<br/>WEST EIGHT MILE ROAD<br/>FERNDAL, MICHIGAN</p> | Project Number:<br>188BS21095   | Drn. By:<br>PH |            |
|                     | Scale:<br>AS SHOWN |   | Drawing File:<br>SEE UPPER LEFT | Ckd. By:<br>RS |            |
|                     |                    |   |                                 |                | App'd By:  |
|                     |                    |   |                                 |                | Ckd. Date: |



|                |
|----------------|
| MW-114         |
| 4/9/2020       |
| 8'-13'         |
| As <b>10.8</b> |

|                 |
|-----------------|
| MW-113          |
| 6/24/2020       |
| 5'-10'          |
| Al <b>2,400</b> |
| Fe <b>3,320</b> |
| Pb <b>5.8</b>   |
| Mn <b>553</b>   |
| V <b>6.7</b>    |

|                  |
|------------------|
| MW-119           |
| 6/23/2020        |
| 5'-10'           |
| Al <b>9,930</b>  |
| Fe <b>10,800</b> |
| Pb <b>18.8</b>   |
| Mn <b>218</b>    |
| Hq <b>0.27</b>   |
| V <b>33.5</b>    |

|                 |
|-----------------|
| MW-120          |
| 6/23/2020       |
| 5'-10'          |
| Al <b>1,530</b> |
| Fe <b>2,000</b> |
| Mn <b>422</b>   |
| V <b>4.5</b>    |

|               |
|---------------|
| MW-121        |
| 6/23/2020     |
| 8'-13'        |
| Al <b>461</b> |
| B <b>583</b>  |
| Fe <b>636</b> |
| Mn <b>338</b> |
| V <b>7.2</b>  |

|                 |
|-----------------|
| MW-122          |
| 6/24/2020       |
| 8'-13'          |
| Al <b>1,530</b> |
| Fe <b>2,000</b> |
| Mn <b>422</b>   |
| V <b>4.5</b>    |

|                |
|----------------|
| MW-123         |
| 6/23/2020      |
| 8'-13.5'       |
| Al <b>516</b>  |
| Fe <b>727</b>  |
| Mn <b>69.9</b> |

|               |
|---------------|
| MW-124        |
| 6/23/2020     |
| 8'-13'        |
| Al <b>461</b> |
| B <b>583</b>  |
| Fe <b>636</b> |
| Mn <b>338</b> |
| V <b>7.2</b>  |

|                |
|----------------|
| MW-125         |
| 6/23/2020      |
| 8'-13.5'       |
| Al <b>516</b>  |
| Fe <b>727</b>  |
| Mn <b>69.9</b> |

|                 |
|-----------------|
| MW-126          |
| 6/23/2020       |
| 8.5'-13.5'      |
| Al <b>376</b>   |
| B <b>590</b>    |
| Fe <b>1,270</b> |
| Mn <b>251</b>   |
| V <b>11.1</b>   |

|                 |
|-----------------|
| MW-127          |
| 6/24/2020       |
| 8'-13'          |
| Al <b>1,530</b> |
| Fe <b>2,000</b> |
| Mn <b>422</b>   |
| V <b>4.5</b>    |

|               |
|---------------|
| MW-128        |
| 6/24/2020     |
| 8'-13'        |
| Al <b>461</b> |
| B <b>583</b>  |
| Fe <b>636</b> |
| Mn <b>338</b> |
| V <b>7.2</b>  |

|               |
|---------------|
| MW-129        |
| 6/24/2020     |
| 9'-14'        |
| Se <b>5.4</b> |

|                 |
|-----------------|
| MW-132          |
| 8/13/2020       |
| 10'-15'         |
| Al <b>3,350</b> |
| Pb <b>22.5</b>  |

|                |
|----------------|
| MW-133         |
| 8/13/2020      |
| 10'-15'        |
| B <b>1,210</b> |
| V <b>5.8</b>   |

**LEGEND:**

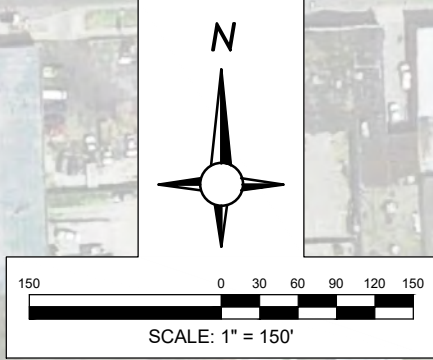
- MW-101 MONITORING WELL BY ATC
- MW-1 MONITORING WELL BY OTHERS
- MW-C TEMPORARY/FORMER WELL BY OTHERS
- A1 SOIL-GAS MONITORING WELL BY ATC
- 18VP-5 SOIL-GAS MONITORING WELL BY OTHERS
- B-1 SOIL BORING
- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE PROPERTY PARCEL (6 ACRES)
- OLD RIVER BED
- FORMER BUILDING
- WATER LINE
- GAS LINE
- STORM SEWER
- OVERHEAD ELECTRIC

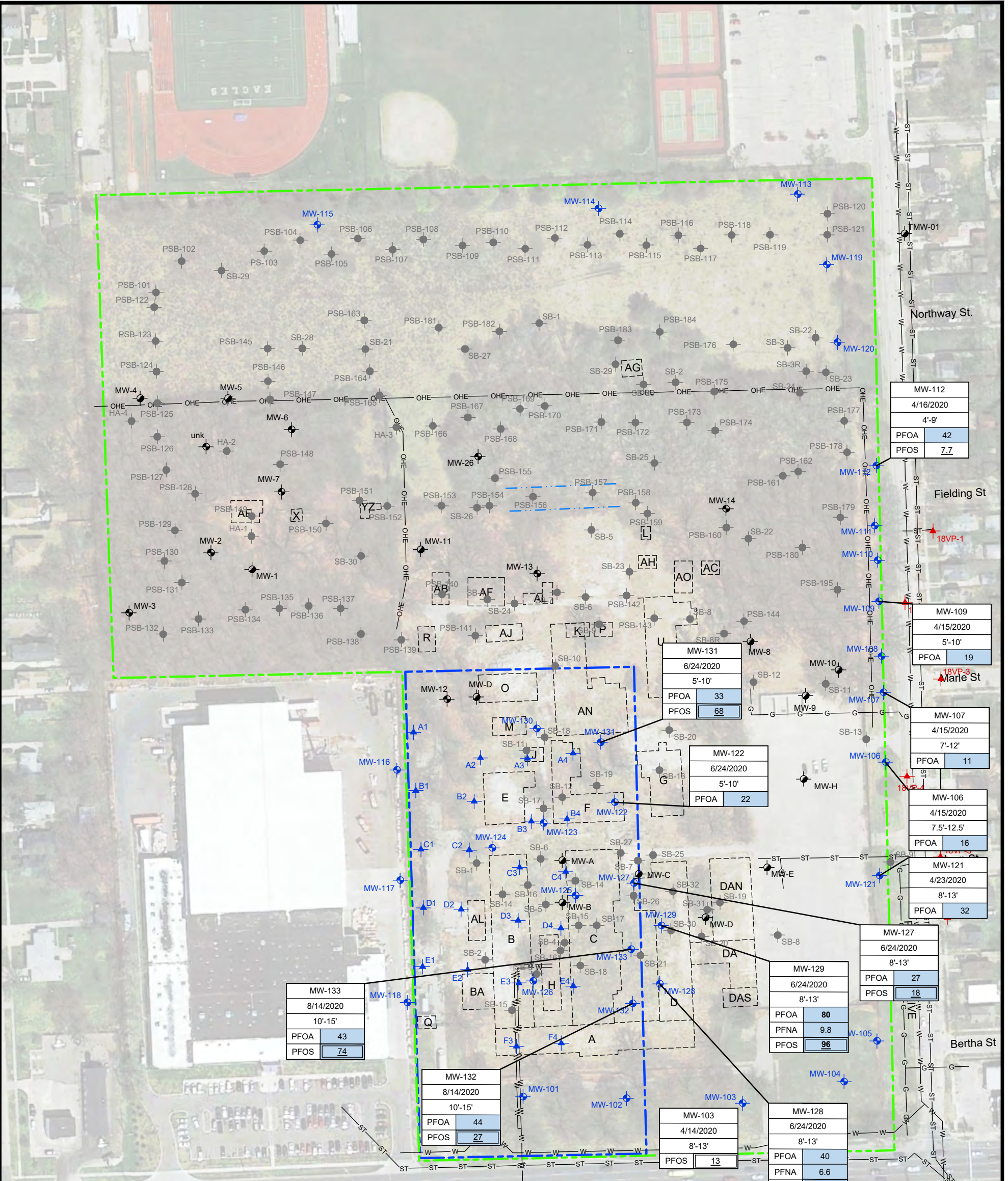
NOTE: ALL LOCATIONS ARE APPROXIMATE

**GROUNDWATER METALS NOTES:**

|    |           |       |   |
|----|-----------|-------|---|
| Al | Aluminum  | 10    | Analyte exceeds residential drinking water protection criteria                            |
| As | Arsenic   | 10    | Analyte exceeds groundwater surface water interface protection criteria                   |
| B  | Boron     | 0.088 | Analyte exceeds residential volatilization to indoor air pathway screening levels (VIAP). |
| Fe | Iron      |       |   |
| Pb | Lead      |       |   |
| Mn | Manganese |       |   |
| Hg | Mercury   |       |   |
| Se | Selenium  |       |   |
| Na | Sodium    |       |   |
| V  | Vanadium  |       |   |

Analyses were conducted at Pace Analytical (PACE) in Indianapolis, Indiana. Metals were analyzed by EPA Method 6010 or 6020. Mercury analyzed by EPA Method 7470A. EGLE Michigan Department of Environment, Great Lakes, and Energy. Notes in parentheses and standard abbreviations from Part 201 Rules 299.1 through 299.50, dated June 25, 2018; VIAP screening levels, dated September 4, 2020





**LEGEND:**

- ◆ MW-101 MONITORING WELL BY ATC  
Well Identification
- ◆ MW-1 MONITORING WELL BY OTHERS  
Well Identification
- ◆ MW-C TEMPORARY/FORMER WELL BY OTHERS  
Well Identification
- ◆ A1 SOIL-GAS MONITORING WELL BY ATC  
Sample Identification
- ◆ 18VP-5 SOIL-GAS MONITORING WELL BY OTHERS  
Sample Identification
- ◆ B-1 SOIL BORING  
Boring Identification
- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE PROPERTY PARCEL (6 ACRES)
- OLD RIVER BED
- FORMER BUILDING
- WATER LINE
- GAS LINE
- ST STORM SEWER
- OHE OVERHEAD ELECTRIC

NOTE: ALL LOCATIONS ARE APPROXIMATE

**NOTES:**

|        |   |
|--------|---|
| 8      | Analyte exceeds proposed PFAS drinking water standard.          |
| 70     | Analyte exceeds residential drinking water protection criteria. |
| 12,000 | Analyte exceeds Groundwater Surface Water Interface criteria.   |
| 3.10   | Analyte exceeds Water Solubility.                               |

Analyses were conducted at Pace Analytical (PACE) in Minneapolis, Minnesota. Perfluorinated compounds were analyzed using an isotope dilution based on Department of Defense (DoD) Quality Systems Manual (QSM) 5.1.1. EGLE Michigan Department of Environment, Great Lakes, and Energy.

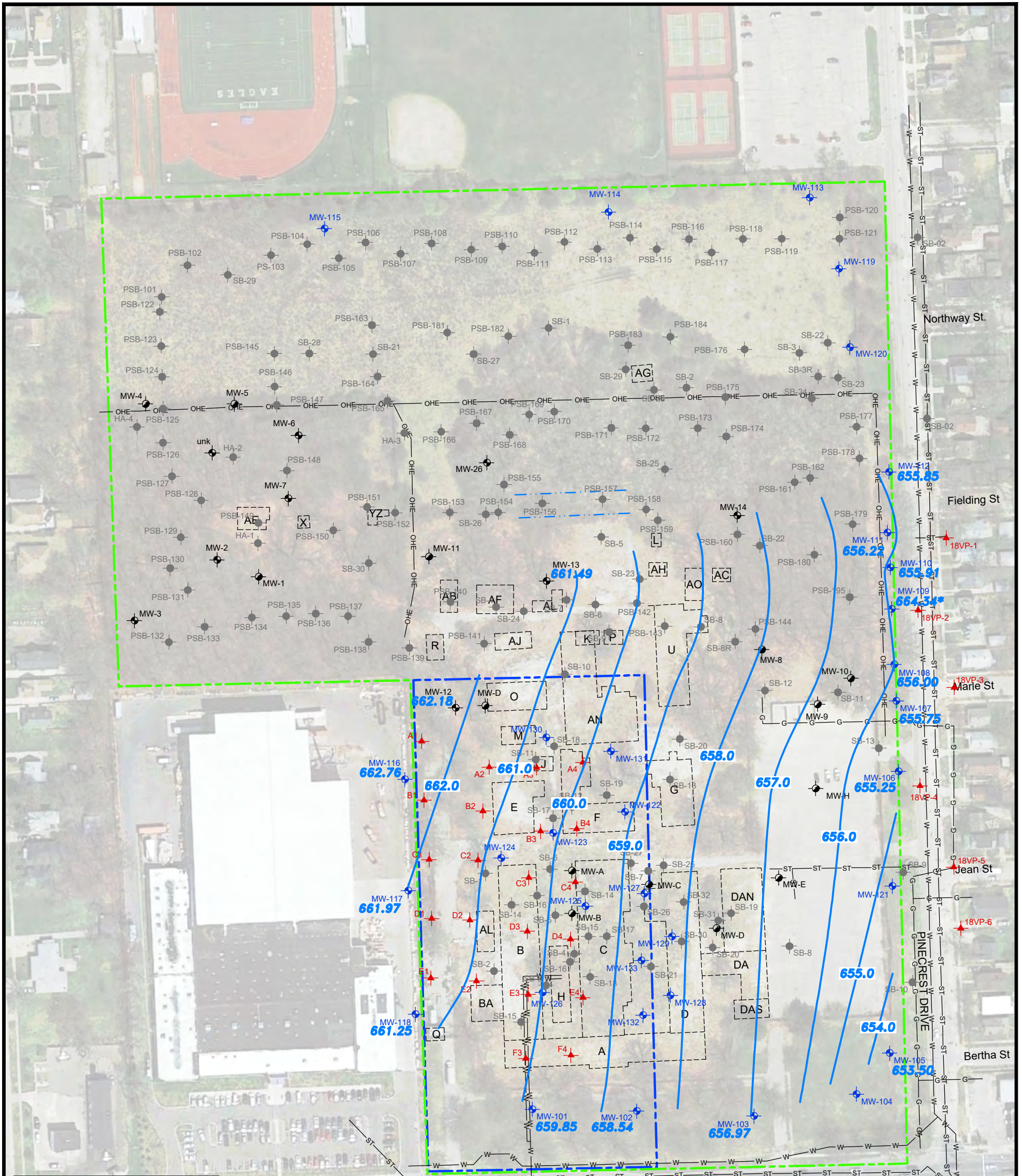
**ABBREVIATIONS**  
PFAS Per- and Polyfluoroalkyl Substances

N

150 0 30 60 90 120 150

SCALE: 1" = 150'

|          |  |                                     |                              |             |
|----------|--|-------------------------------------|------------------------------|-------------|
| <b>9</b> | Date: 03/2021  | <b>GROUNDWATER PFAS EXCEEDANCES</b> | Project Number: 188BS21095   | Drn. By: PH |
|          | AS SHOWN   |                                     | Drawing File: SEE UPPER LEFT | Ckd. By: RS |
|          | Figure:  |                                     | <b>ATC</b>                   | App'd. By:  |
|          | FORMER HAYES LEMMERZ SITE<br>WEST EIGHT MILE ROAD<br>FERNDAL, MICHIGAN |                                     | Ckd. Date:                   |             |



**LEGEND:**

- MW-101 659.85 MONITORING WELL BY ATC
  - Well Identification
  - Groundwater Elevation
- MW-13 659.85 MONITORING WELL BY OTHERS
  - Well Identification
  - Groundwater Elevation
- MW-C TEMPORARY/FORMER WELL BY OTHERS
  - Well Identification
- A1 SOIL-GAS MONITORING WELL BY ATC
  - Sample Identification
- 18VP-5 SOIL-GAS MONITORING WELL BY OTHERS
  - Sample Identification
- B-1 SOIL BORING
  - Boring Identification
- 660.0 GROUNDWATER CONTOUR
- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE PROPERTY PARCEL (6 ACRES)
- OLD RIVER BED
- FORMER BUILDING
- W WATER LINE
- G GAS LINE
- ST STORM SEWER
- OHE OVERHEAD ELECTRIC

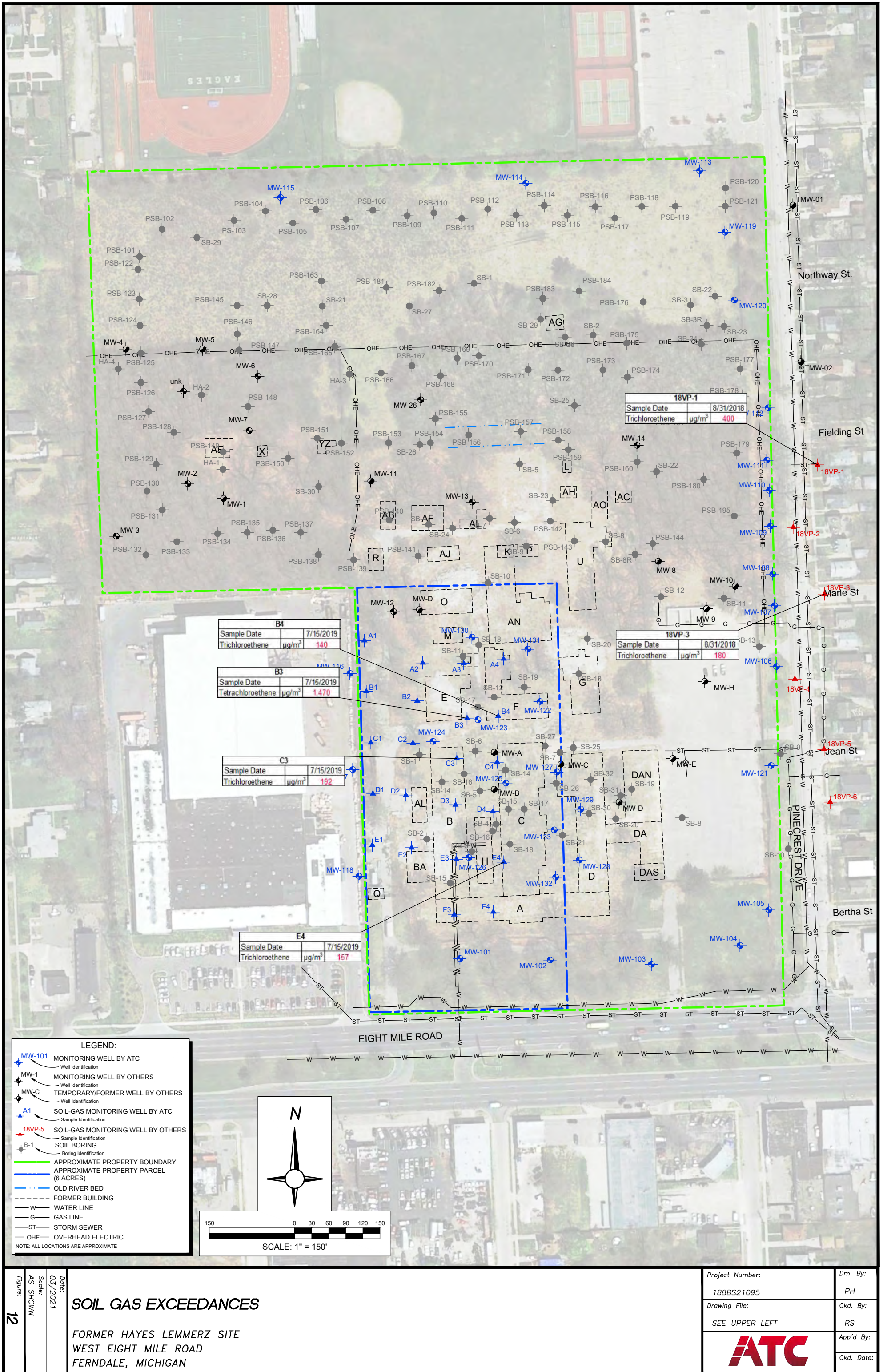
NOTE: ALL LOCATIONS ARE APPROXIMATE

N

SCALE: 1" = 150'

|           |         |          |   |                 |                |            |    |
|-----------|---------|----------|---|-----------------|----------------|------------|----|
| <b>10</b> | Date:   | 03/2021  | <p><b>GROUNDWATER FLOW MAP APRIL 2020</b></p> <p>FORMER HAYES LEMMERZ SITE<br/>WEST EIGHT MILE ROAD<br/>FERNDAL, MICHIGAN</p> | Project Number: | 188BS21095     | Drn. By:   | PH |
|           | Scale:  | AS SHOWN |   | Drawing File:   | SEE UPPER LEFT | Ckd. By:   | RS |
|           | Figure: |          |   |                 |                | App'd. By: |    |
|           |         |          |   |                 |                | Ckd. Date: |    |





**LEGEND:**

- MW-101 MONITORING WELL BY ATC  
Well Identification
- MW-1 MONITORING WELL BY OTHERS  
Well Identification
- MW-C TEMPORARY/FORMER WELL BY OTHERS  
Well Identification
- A1 SOIL-GAS MONITORING WELL BY ATC  
Sample Identification
- 18VP-5 SOIL-GAS MONITORING WELL BY OTHERS  
Sample Identification
- B-1 SOIL BORING  
Boring Identification
- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE PROPERTY PARCEL (6 ACRES)
- OLD RIVER BED
- FORMER BUILDING
- WATER LINE
- GAS LINE
- STORM SEWER
- OVERHEAD ELECTRIC

NOTE: ALL LOCATIONS ARE APPROXIMATE

N

150 0 30 60 90 120 150

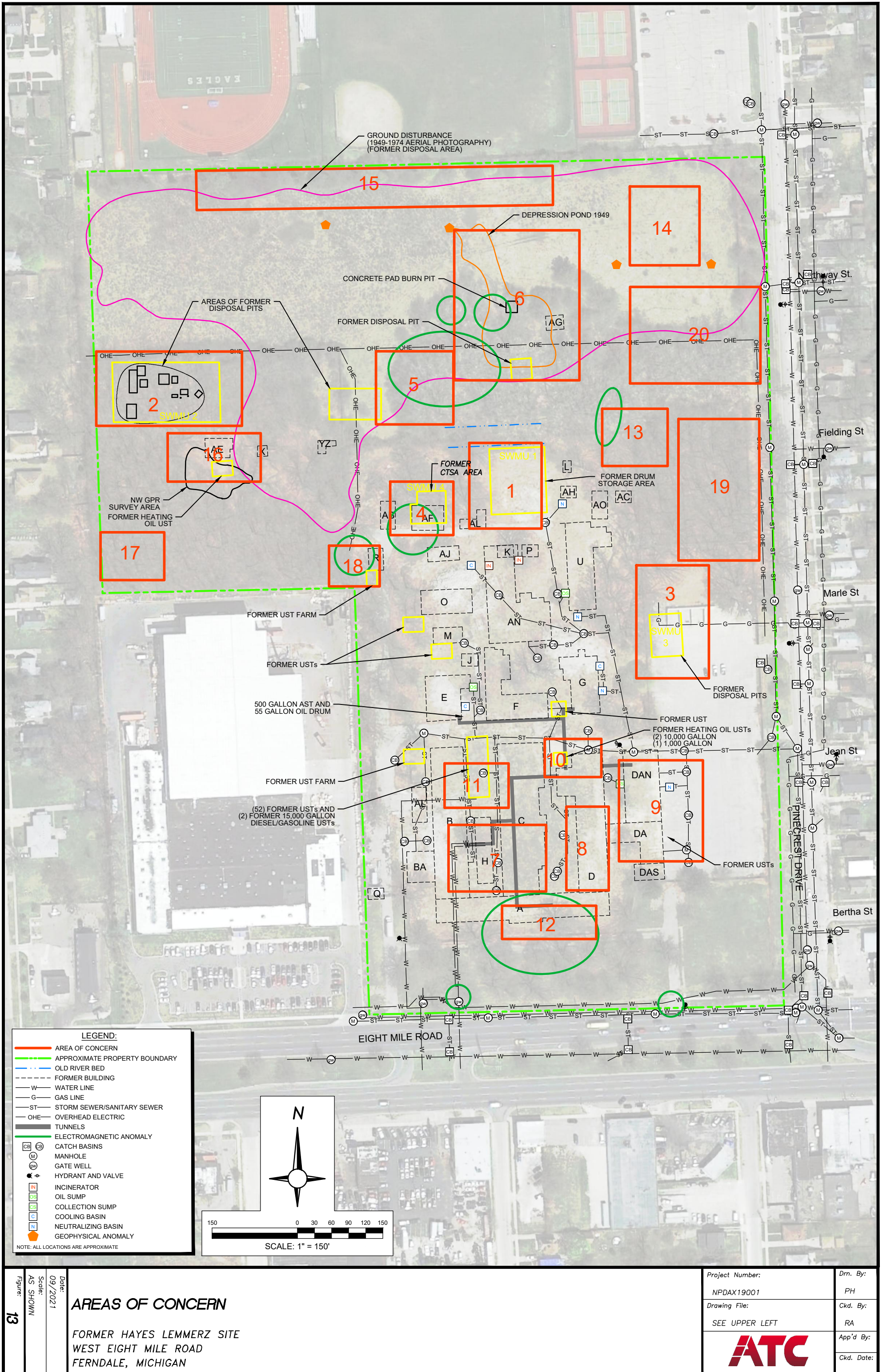
SCALE: 1" = 150'

Date: 03/2021  
 Scale: AS SHOWN  
 Figure: 12

**SOIL GAS EXCEEDANCES**

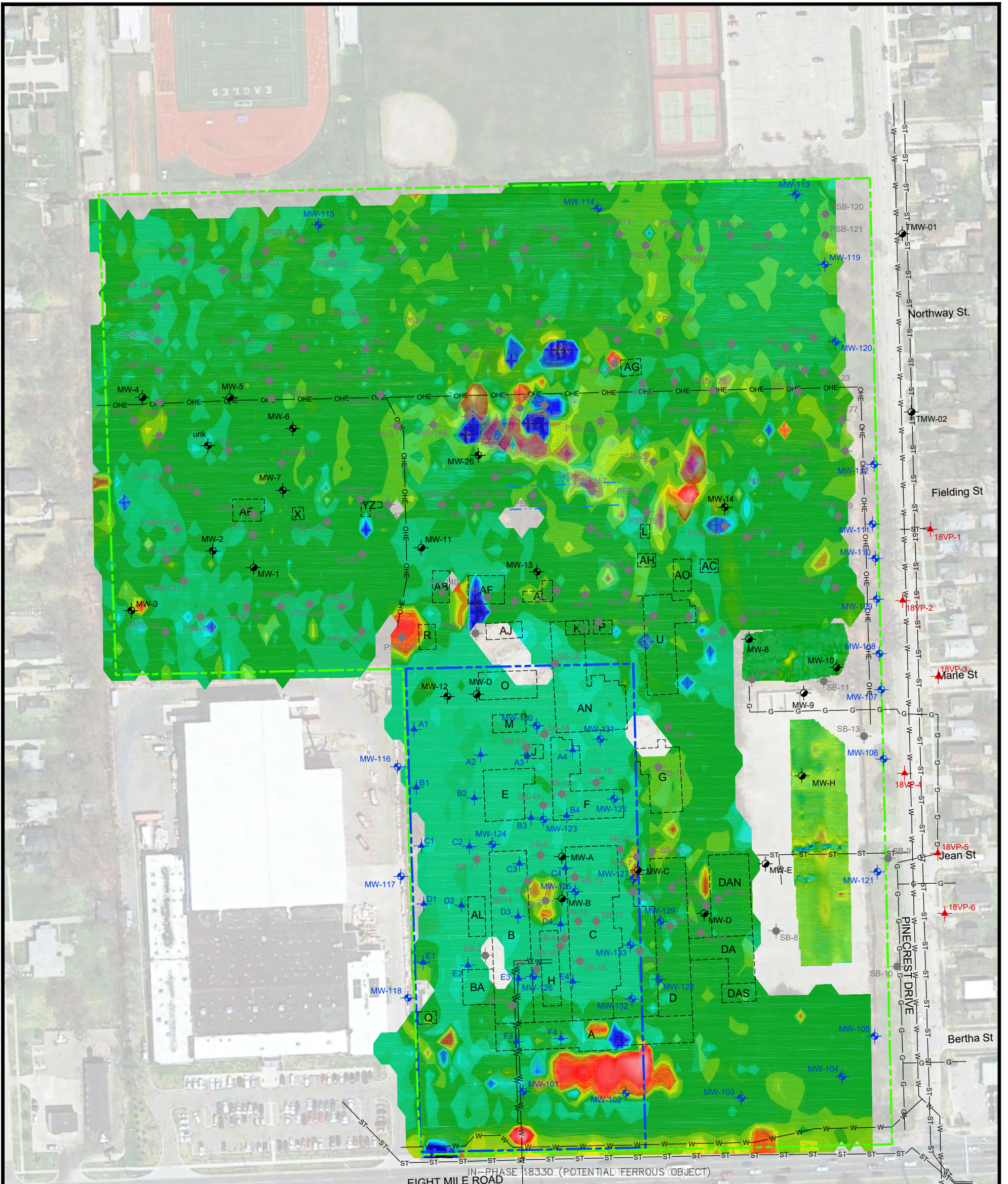
FORMER HAYES LEMMERZ SITE  
 WEST EIGHT MILE ROAD  
 FERNDAL, MICHIGAN

|                                 |                |
|---------------------------------|----------------|
| Project Number:<br>188BS21095   | Drn. By:<br>PH |
| Drawing File:<br>SEE UPPER LEFT | Ckd. By:<br>RS |
|                                 |                |
|                                 | App'd. By:     |
|                                 | Ckd. Date:     |



|                                 |                |
|---------------------------------|----------------|
| Project Number:<br>NPDAX19001   | Drn. By:<br>PH |
| Drawing File:<br>SEE UPPER LEFT | Ckd. By:<br>RA |
| <b>ATC</b>                      | App'd By:      |
|                                 | Ckd. Date:     |

Date: 09/2021  
Scale: AS SHOWN  
Figure: 13



**LEGEND:**

- ◆ MW-101 MONITORING WELL BY ATC  
Well Identification
- ◆ MW-1 MONITORING WELL BY OTHERS  
Well Identification
- ◆ MW-C TEMPORARY/FORMER WELL BY OTHERS  
Well Identification
- ◆ A1 SOIL-GAS MONITORING WELL BY ATC  
Sample Identification
- ◆ 18VP-5 SOIL-GAS MONITORING WELL BY OTHERS  
Sample Identification
- ◆ B-1 SOIL BORING  
Boring Identification
- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE PROPERTY PARCEL (6 ACRES)
- OLD RIVER BED
- FORMER BUILDING
- W WATER LINE
- G GAS LINE
- ST STORM SEWER
- OHE OVERHEAD ELECTRIC

NOTE: ALL LOCATIONS ARE APPROXIMATE

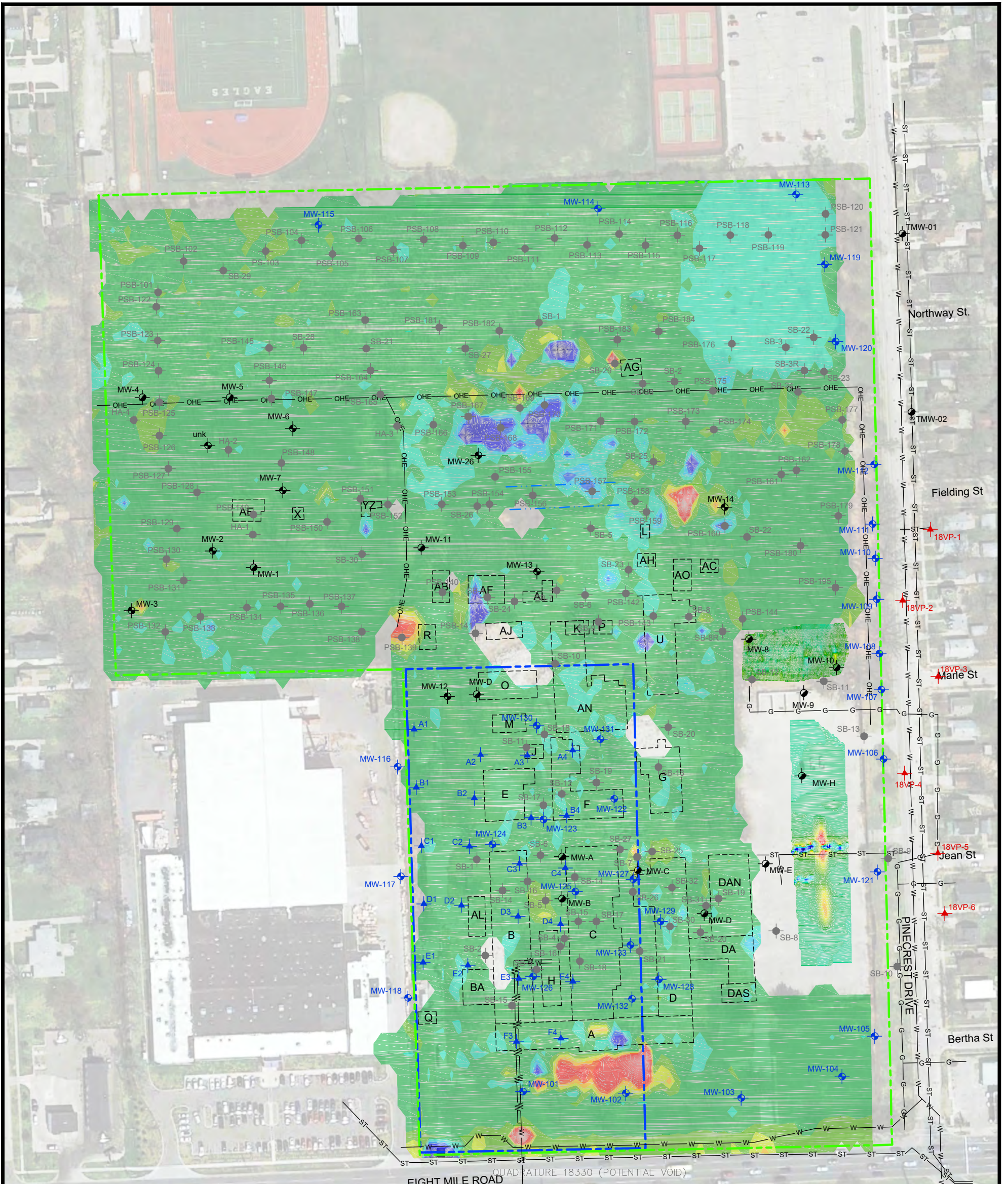
N

SCALE: 1" = 150'

|                      |                    |  |                                 |                |  |
|----------------------|--------------------|--|---------------------------------|----------------|--|
| Figure:<br><b>14</b> | Date:<br>03/2021   | <b>ELECTROMAGNETIC INDUCTION RESULTS</b> | Project Number:<br>188BS20195   | Dwn. By:<br>PH |  |
|                      | Scale:<br>AS SHOWN |  | Drawing File:<br>SEE UPPER LEFT | Ckd. By:<br>RS |  |
|                      | AS SHOWN           |  |                                 |                |  |
|                      | AS SHOWN           |  | App'd By:                       | Ckd. Date:     |  |

FORMER HAYES LEMMERZ SITE  
WEST EIGHT MILE ROAD  
FERNDAL, MICHIGAN





**LEGEND:**

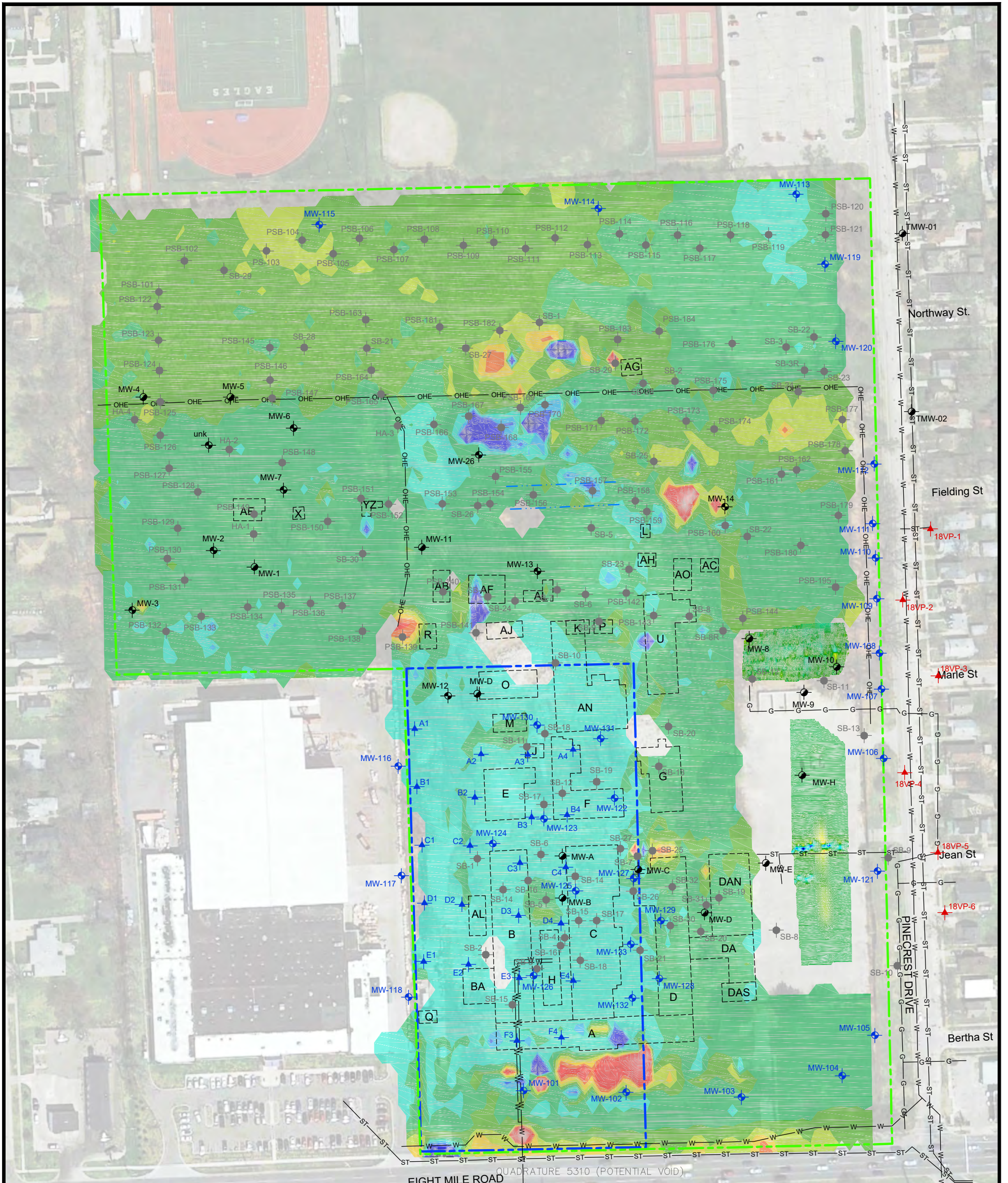
- ◆ MW-101 MONITORING WELL BY ATC  
Well Identification
- ◆ MW-1 MONITORING WELL BY OTHERS  
Well Identification
- ◆ MW-C TEMPORARY/FORMER WELL BY OTHERS  
Well Identification
- ◆ A1 SOIL-GAS MONITORING WELL BY ATC  
Sample Identification
- ◆ 18VP-5 SOIL-GAS MONITORING WELL BY OTHERS  
Sample Identification
- ◆ B-1 SOIL BORING  
Boring Identification
- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE PROPERTY PARCEL (6 ACRES)
- OLD RIVER BED
- FORMER BUILDING
- W WATER LINE
- G GAS LINE
- ST STORM SEWER
- OHE OVERHEAD ELECTRIC

NOTE: ALL LOCATIONS ARE APPROXIMATE

N

SCALE: 1" = 150'

|           |         |          |  |                 |  |          |            |  |
|-----------|---------|----------|--|-----------------|--|----------|------------|--|
| <b>15</b> | Date:   | 03/2021  | <b>ELECTROMAGNETIC SURVEY - VOIDS SHALLOW(Quad18330)</b> | Project Number: | 188BS20195   | Dwn. By: | PH         |  |
|           | Scale:  | AS SHOWN |  | Drawing File:   | SEE UPPER LEFT   | Ckd. By: | RS         |  |
|           | Figure: |          |  |                 | App'd By:  |          | Ckd. Date: |  |
|           |         |          |  |                 | FORMER HAYES LEMMERZ SITE<br>WEST EIGHT MILE ROAD<br>FERNDAL, MICHIGAN |          |            |  |



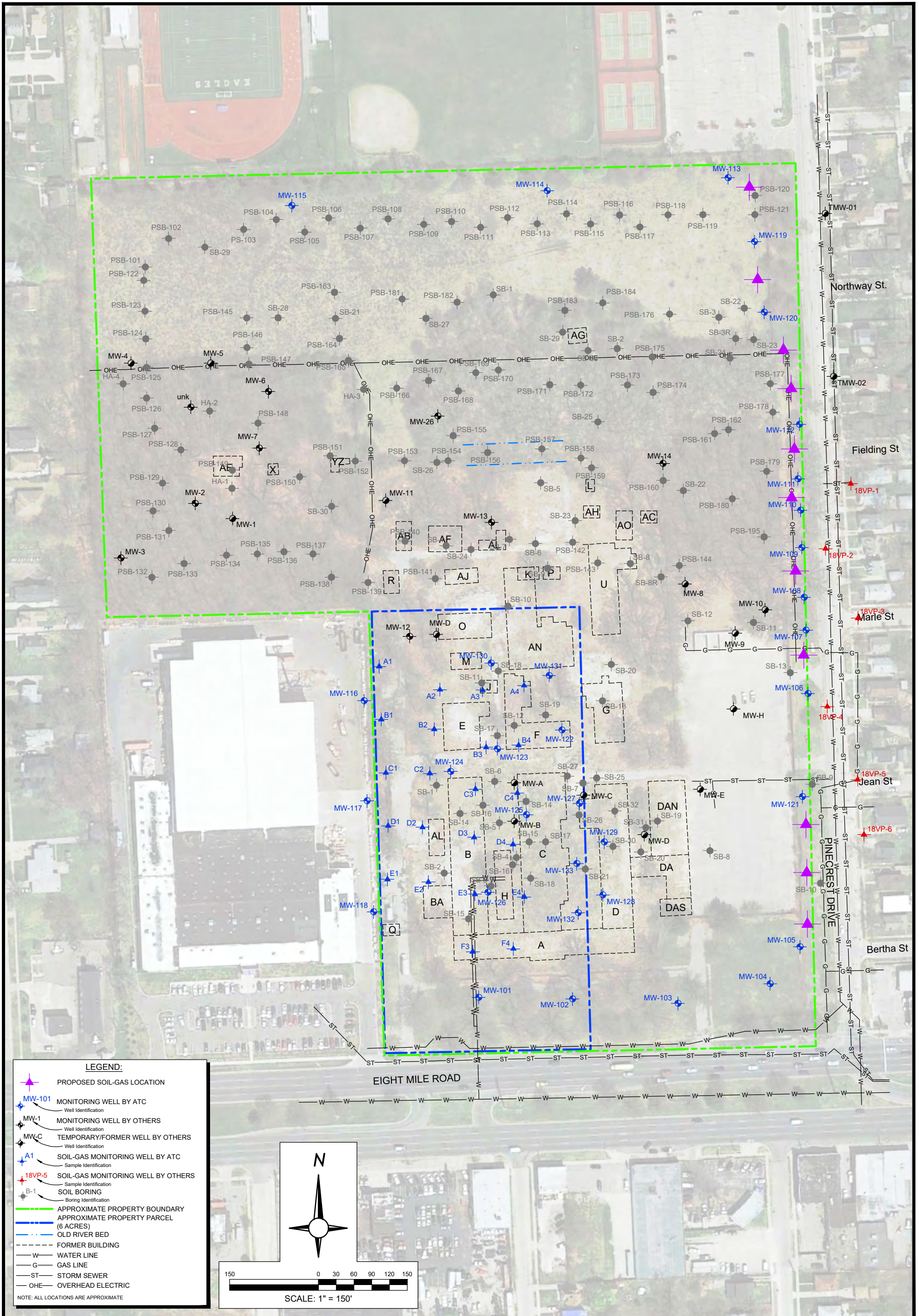
**LEGEND:**

- MW-101 MONITORING WELL BY ATC  
Well Identification
- MW-1 MONITORING WELL BY OTHERS  
Well Identification
- MW-C TEMPORARY/FORMER WELL BY OTHERS  
Well Identification
- A1 SOIL-GAS MONITORING WELL BY ATC  
Sample Identification
- 18VP-5 SOIL-GAS MONITORING WELL BY OTHERS  
Sample Identification
- B-1 SOIL BORING  
Boring Identification
- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE PROPERTY PARCEL (6 ACRES)
- OLD RIVER BED
- FORMER BUILDING
- WATER LINE
- GAS LINE
- STORM SEWER
- OVERHEAD ELECTRIC

NOTE: ALL LOCATIONS ARE APPROXIMATE

SCALE: 1" = 150'

|                          |   |   |   |  |
|--------------------------|---|---|---|--|
| <p>Figure: <b>16</b></p> | <p>Date: 03/2021</p> <p>Scale: AS SHOWN</p> | <p><b>ELECTROMAGNETIC SURVEY - VOIDS DEEPER(Quad5310)</b></p> <p>FORMER HAYES LEMMERZ SITE<br/>WEST EIGHT MILE ROAD<br/>FERNDAL, MICHIGAN</p> | <p>Project Number:<br/>188BS21095</p> <p>Drawing File:<br/>SEE UPPER LEFT</p> | <p>Drn. By:<br/>PH</p> <p>Ckd. By:<br/>RS</p> <p>App'd By:</p> <p>Ckd. Date:</p> |
|                          |   |   |   |  |
|                          |   |   |   |  |
|                          |   |   |   |  |



**LEGEND:**

- PROPOSED SOIL-GAS LOCATION
- MONITORING WELL BY ATC  
Well Identification
- MONITORING WELL BY OTHERS  
Well Identification
- TEMPORARY/FORMER WELL BY OTHERS  
Well Identification
- SOIL-GAS MONITORING WELL BY ATC  
Sample Identification
- SOIL-GAS MONITORING WELL BY OTHERS  
Sample Identification
- SOIL BORING  
Boring Identification
- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE PROPERTY PARCEL  
(6 ACRES)
- OLD RIVER BED
- FORMER BUILDING
- WATER LINE
- GAS LINE
- STORM SEWER
- OVERHEAD ELECTRIC

NOTE: ALL LOCATIONS ARE APPROXIMATE

N

150 0 30 60 90 120 150

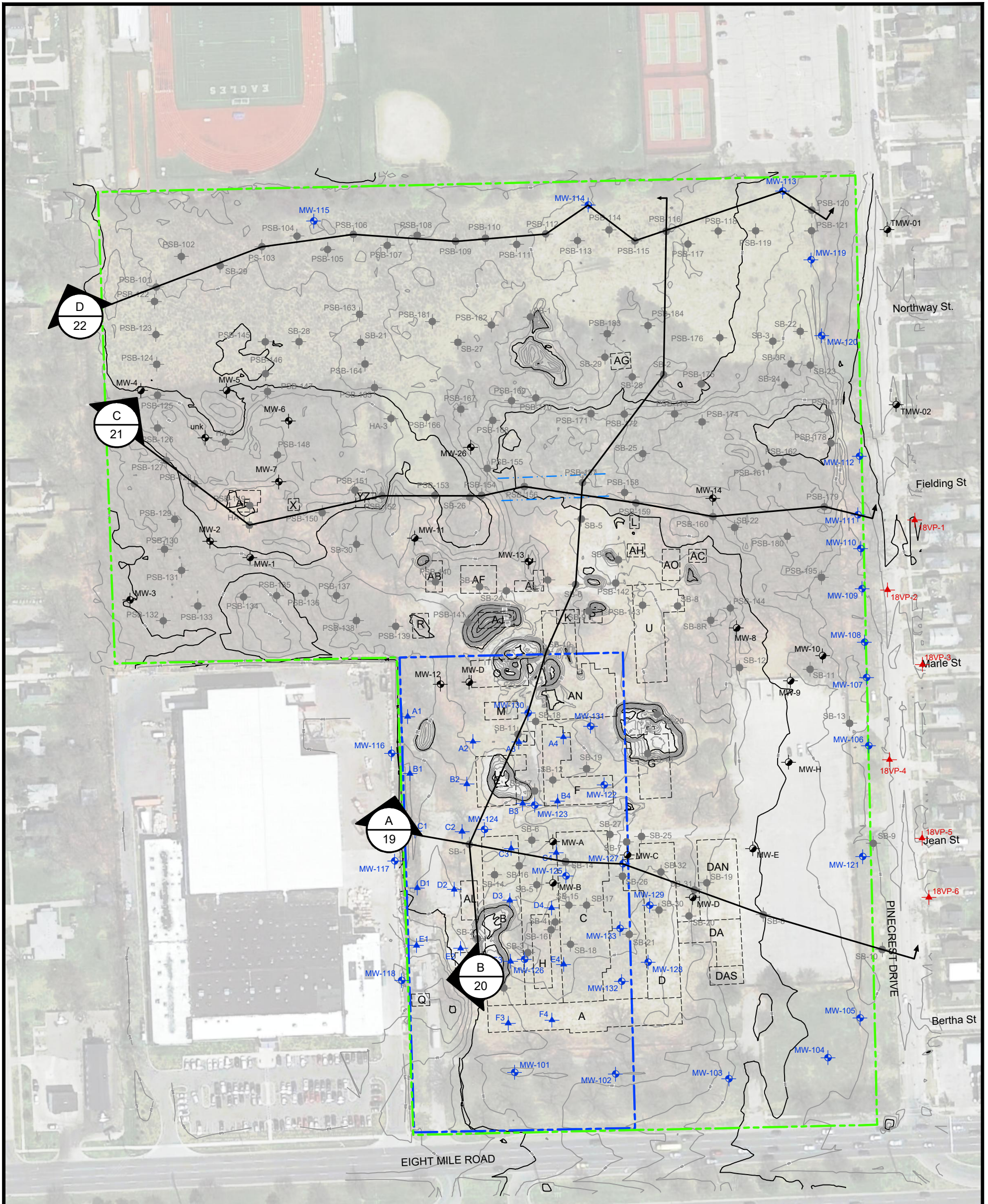
SCALE: 1" = 150'

Date: 03/2021  
 AS SHOWN  
 Figure: 17

**RFI WORK PLAN - PROPOSED SOIL GAS VAPOR POINTS**

FORMER HAYES LEMMERZ SITE  
WEST EIGHT MILE ROAD  
FERNDAL, MICHIGAN

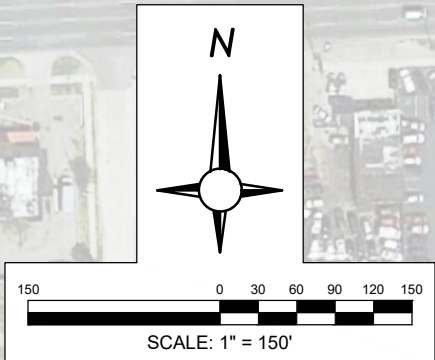
|                                 |                |
|---------------------------------|----------------|
| Project Number:<br>188BS21095   | Drn. By:<br>PH |
| Drawing File:<br>SEE UPPER LEFT | Ckd. By:<br>RS |
|                                 |                |
|                                 | App'd. By:     |
|                                 | Ckd. Date:     |



**LEGEND:**

- MW-101 MONITORING WELL BY ATC  
Well Identification
- MW-1 MONITORING WELL BY OTHERS  
Well Identification
- MW-C TEMPORARY/FORMER WELL BY OTHERS  
Well Identification
- A1 SOIL-GAS MONITORING WELL BY ATC  
Sample Identification
- 18VP-5 SOIL-GAS MONITORING WELL BY OTHERS  
Sample Identification
- B-1 SOIL BORING  
Boring Identification
- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE PROPERTY PARCEL  
(6 ACRES)
- OLD RIVER BED
- FORMER BUILDING

NOTE: ALL LOCATIONS ARE APPROXIMATE

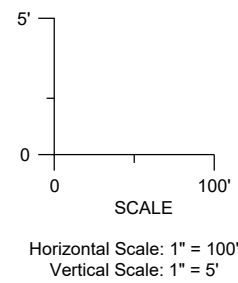
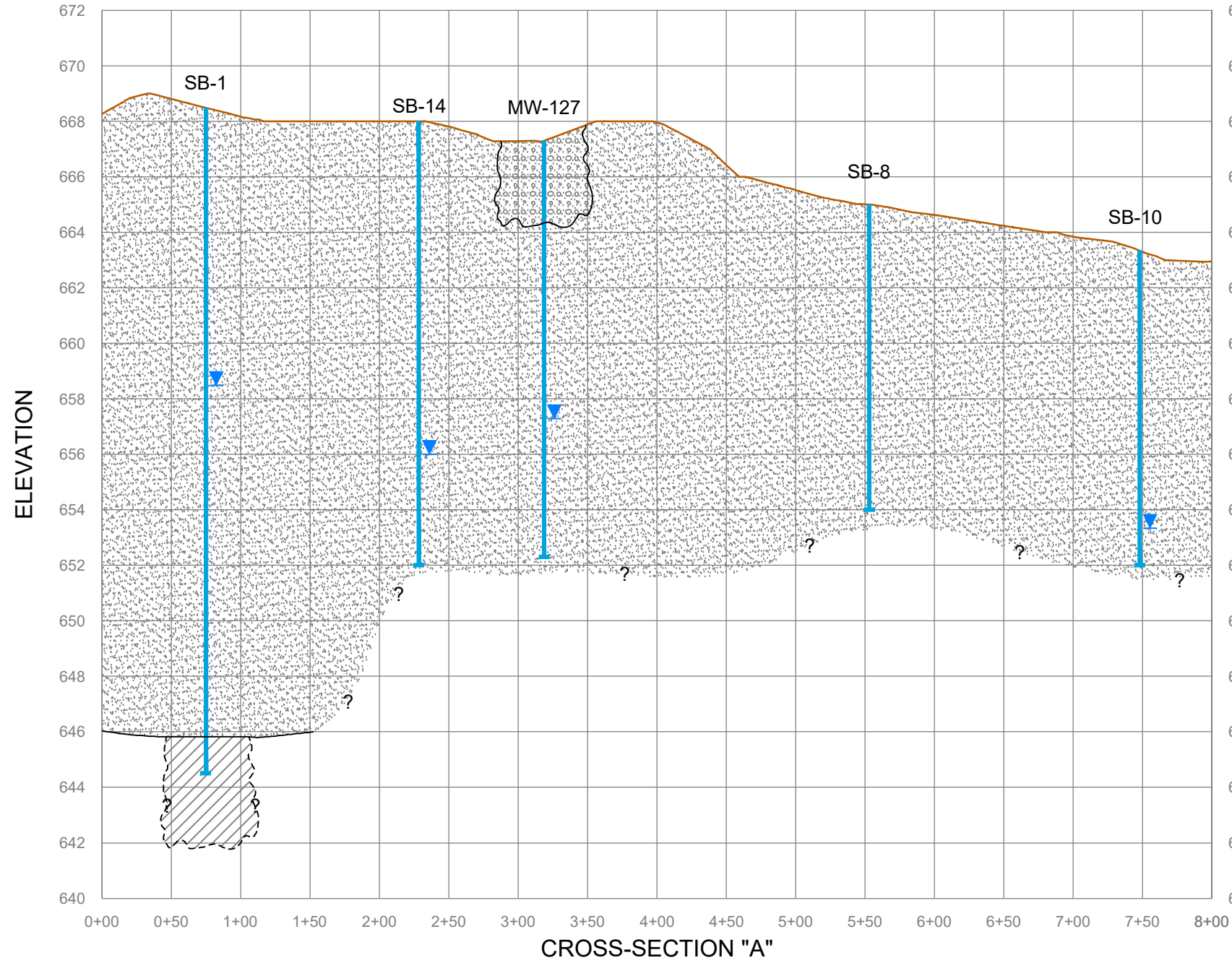


Date: 09/2021  
 Scale: AS SHOWN  
 Figure: 18

**CROSS SECTION LOCATION MAP**  
 FORMER HAYES LEMMERZ SITE  
 WEST EIGHT MILE ROAD  
 FERNDAL, MICHIGAN

|                                 |                |
|---------------------------------|----------------|
| Project Number:<br>188BS21095   | Drn. By:<br>PH |
| Drawing File:<br>SEE UPPER LEFT | Ckd. By:<br>RA |
|                                 |                |
|                                 | App'd By:      |
|                                 | Ckd. Date:     |

H:\2021\OTHER OFFICES\MICHIGAN\CASH CLIENT-CENTRAL REGION\DETROIT AXLE SITE COMPLETION\188BS21095-CROSS SECTIONS.DWG, FIG19



**LEGEND:**

- EXISTING TOPOGRAPHY (Orange line)
- GROUNDWATER LEVEL (Blue triangle)
- SAND (Stippled pattern)
- CLAY (Diagonal hatched pattern)
- FILL MATERIAL (GRAVELLY SAND WITH DEBRIS) (Circle/dot pattern)

NOTE: ALL LOCATIONS ARE APPROXIMATE

SB-1 (Boring location)

End of Boring (Arrow pointing to the bottom of the boring line)

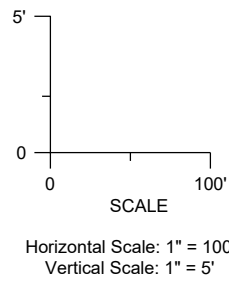
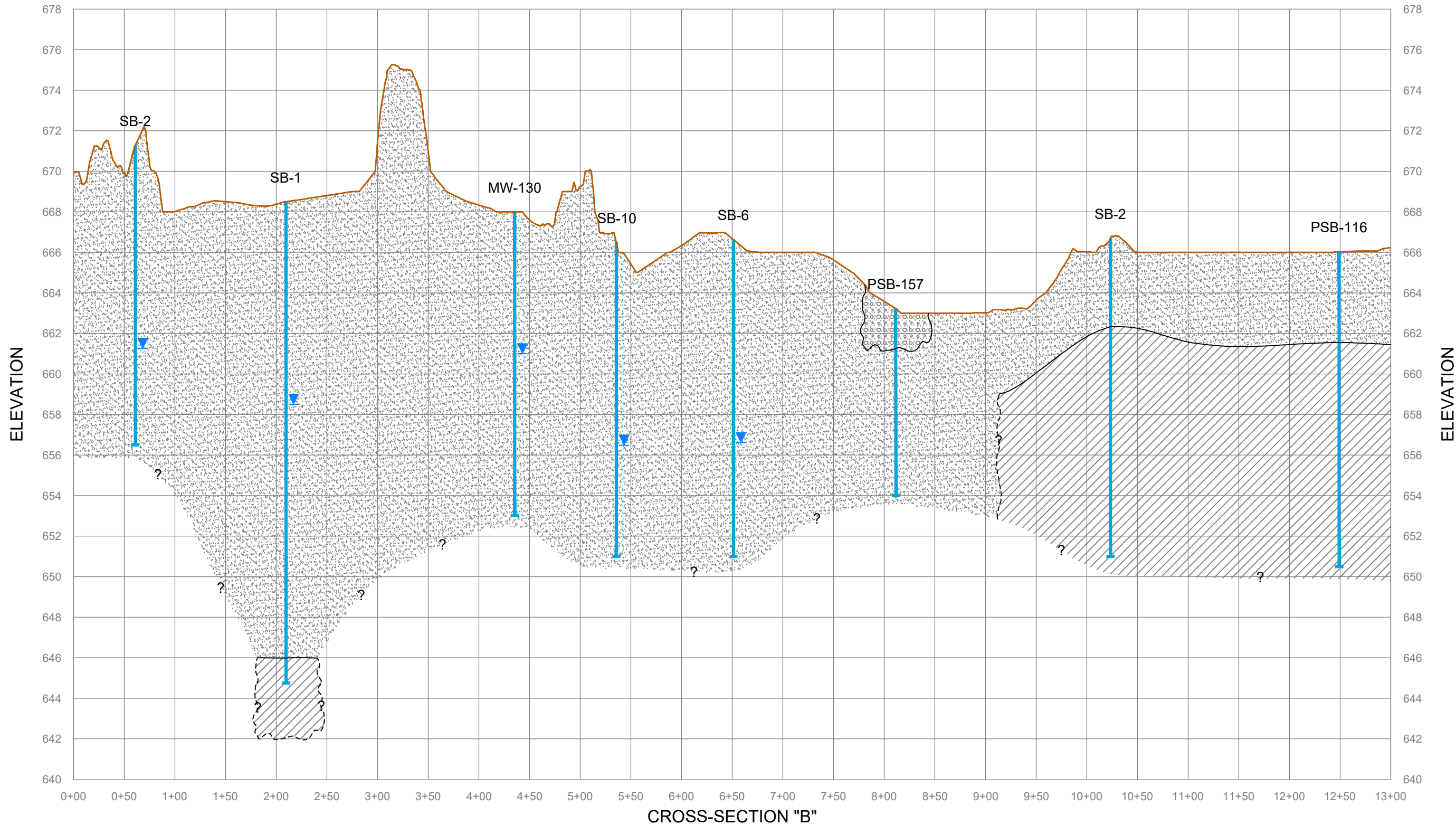
|                 |                |
|-----------------|----------------|
| Project Number: | NPDAX19001     |
| Drawing File:   | SEE UPPER LEFT |
| Drn. By:        | PH             |
| Ckt. By:        | RA             |
| App'd By:       |                |
| Ckt. Date:      |                |

**CROSS SECTION A**  
FORMER HAYES LEMMERZ SITE  
WEST EIGHT MILE ROAD  
FERNDALE, MICHIGAN

|         |          |
|---------|----------|
| Date:   |          |
| Scale:  | AS SHOWN |
| Figure: | 19       |



H:\2021\OTHER OFFICES\MICHIGAN\CASH CLIENT-CENTRAL REGION\DETROIT AXLE SITE COMPLETION\188BS21095-CROSS SECTIONS.DWG, FIG20



**LEGEND:**

- EXISTING TOPOGRAPHY (orange line)
- SAND (stippled pattern)
- CLAY (hatched pattern)
- FILL MATERIAL (GRAVELLY SAND WITH DEBRIS) (dotted pattern)
- GROUNDWATER LEVEL (black line)
- SB-1 (boring location)
- End of Boring (arrow pointing to the bottom of a boring)

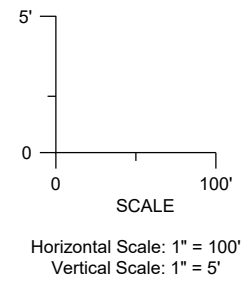
NOTE:  
ALL LOCATIONS ARE APPROXIMATE

|                 |                |
|-----------------|----------------|
| Drn. By:        | PH             |
| Project Number: | NPDAX19001     |
| Ckt. By:        | RA             |
| Drawing File:   | SEE UPPER LEFT |
| App'd By:       |                |
| Ckt. Date:      |                |

**CROSS SECTION B**  
 FORMER HAYES LEMMERZ SITE  
 WEST EIGHT MILE ROAD  
 FERNDALE, MICHIGAN

|         |          |
|---------|----------|
| Date:   |          |
| Scale:  | AS SHOWN |
| Figure: | 20       |

H:\2021\OTHER OFFICES\MICHIGAN\CASH CLIENT-CENTRAL REGION\DETROIT AXLE SITE COMPLETION\188BS21095-CROSS SECTIONS.DWG, FIG21



**LEGEND:**

- EXISTING TOPOGRAPHY (orange line)
- SAND (stippled pattern)
- CLAY (hatched pattern)
- FILL MATERIAL (GRAVELLY SAND WITH DEBRIS) (dotted pattern)
- GROUNDWATER LEVEL (blue triangle)
- SB-1 (boring symbol)
- End of Boring (arrow pointing to the bottom of a boring)

NOTE: ALL LOCATIONS ARE APPROXIMATE

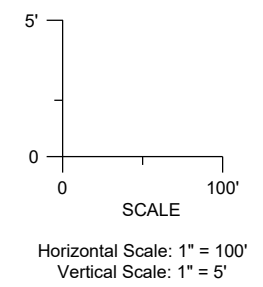
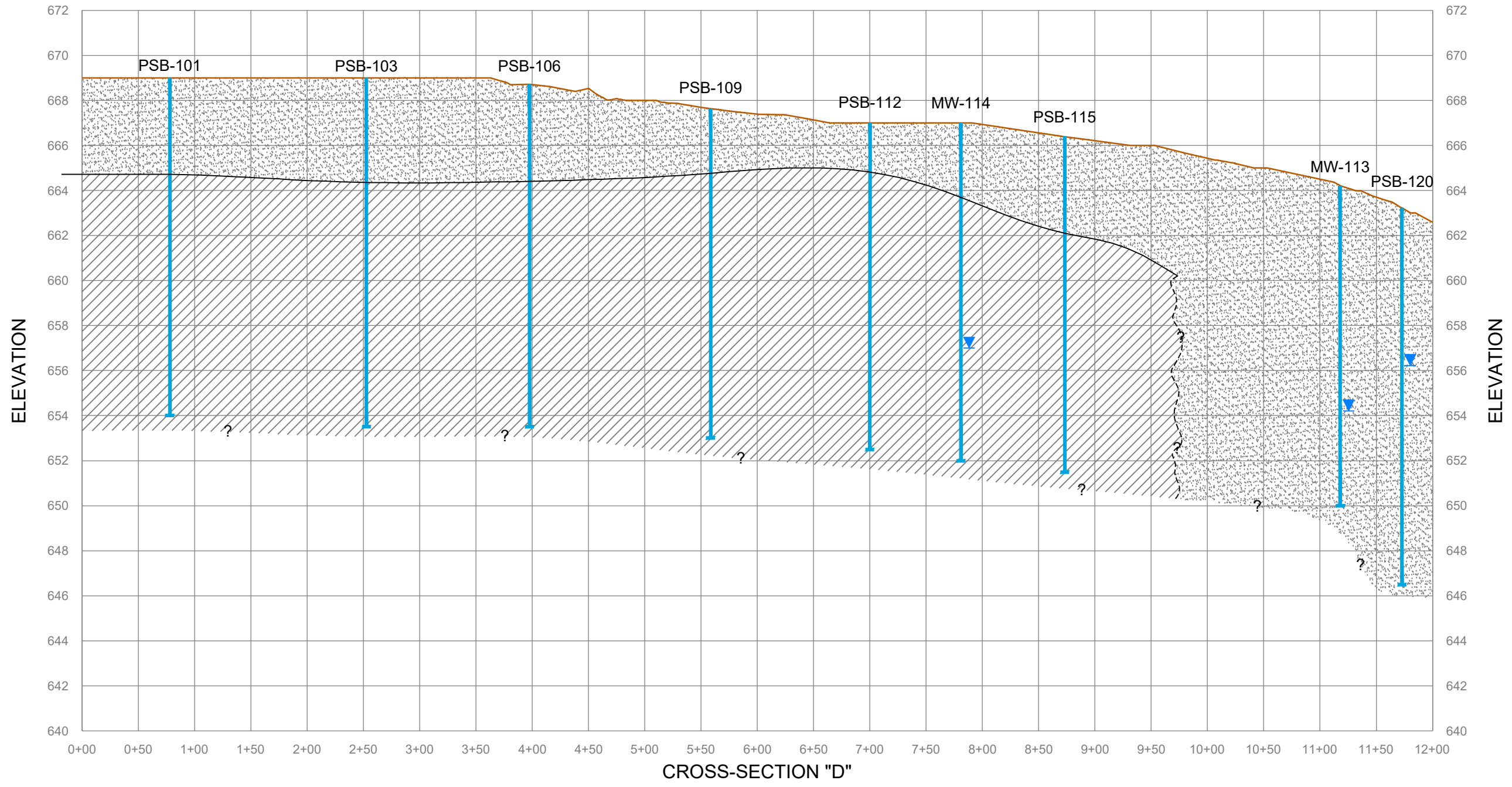
|                 |                |
|-----------------|----------------|
| Project Number: | NPDAX19001     |
| Drawing File:   | SEE UPPER LEFT |
| Drn. By:        | PH             |
| Ckt. By:        | RA             |
| App'd By:       |                |
| Ckt. Date:      |                |



**CROSS SECTION C**  
 FORMER HAYES LEMMERZ SITE  
 WEST EIGHT MILE ROAD  
 FERNDALE, MICHIGAN

|         |          |
|---------|----------|
| Date:   |          |
| Scale:  | AS SHOWN |
| Figure: | 21       |

H:\2021\OTHER OFFICES\MICHIGAN\CASH CLIENT-CENTRAL REGION\DETROIT AXLE SITE COMPLETION\188BS21095-CROSS SECTIONS.DWG, FIG22



**LEGEND:**

- EXISTING TOPOGRAPHY (orange line)
- SAND (stippled pattern)
- CLAY (diagonal hatching)
- FILL MATERIAL (GRAVELLY SAND WITH DEBRIS) (dotted pattern)
- GROUNDWATER LEVEL (black line)
- SB-1 (blue vertical line with arrowhead)
- End of Boring (blue vertical line with horizontal bar)

NOTE: ALL LOCATIONS ARE APPROXIMATE

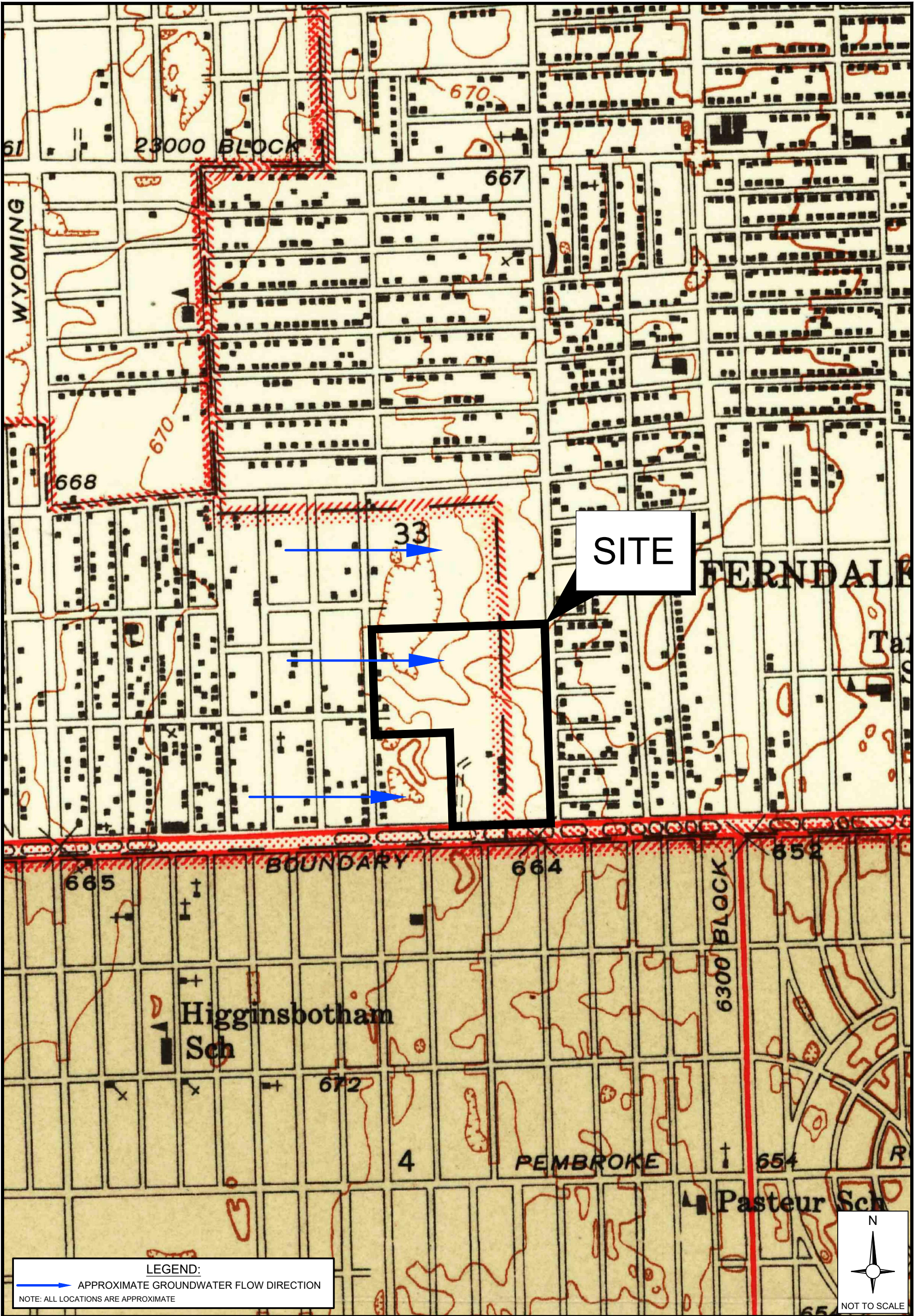
|                 |                |
|-----------------|----------------|
| Project Number: | NPDX19001      |
| Drawing File:   | SEE UPPER LEFT |
| Dwn. By:        | PH             |
| Ckd. By:        | RA             |
| App'd By:       |                |
| Ckcd. Date:     |                |




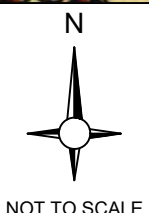
**CROSS SECTION D**  
 FORMER HAYES LEMMERZ SITE  
 WEST EIGHT MILE ROAD  
 FERNDALE, MICHIGAN

|         |          |
|---------|----------|
| Date:   |          |
| Scale:  | AS SHOWN |
| Figure: | 22       |





**LEGEND:**  
 APPROXIMATE GROUNDWATER FLOW DIRECTION  
 NOTE: ALL LOCATIONS ARE APPROXIMATE



NOT TO SCALE

|                      |   |  |                                 |                |
|----------------------|---|--|---------------------------------|----------------|
| Figure:<br><b>23</b> | Date:<br>09/17/2021   | <b>HISTORICAL 1939 TOPOGRAPHY</b><br>FORMER HAYES LEMMERZ SITE<br>WEST EIGHT MILE ROAD<br>FERNDALE, MICHIGAN | Project Number:<br>NPDX19001    | Dm. By:<br>PH  |
|                      | Scale:<br>AS SHOWN  |  | Drawing File:<br>SEE LOWER LEFT | Ckd. By:<br>RA |
|                      |  |  | App'd By:                       |                |
|                      |   |  | Ckd. Date:                      |                |

## **APPENDIX B**

Table 1A- Summary of Soil Analytical Results - Volatile Organic Compounds  
Former Hayes Lemmerz Site  
W. Eight Mile Road, Ferndale, Oakland County, Michigan

| EGLE Part 201 Generic Cleanup Criteria and Screening Levels, dated January 10, 2018; GSI Criteria Updated June 25, 2018 (ug/kg); VIAP Screening Levels Updated September 4, 2020. |                     | Acetone     | Acrylonitrile                               | tert-Amyl methyl ether | Benzene | Bromobenzene | Bromochloromethane | Bromodichloromethane | Bromofom | Bromomethane | 2-Butanone (MEK) | tert-Butyl Alcohol | tert-Butylbenzene | tert-Butylbenzene | tert-Butylbenzene | Carbon disulfide | Carbon tetrachloride | Chlorobenzene | Chloroethane | Chloroform | Chloromethane | Cyclohexane   | 1,2-Dichloro-3-chloropropane | Dibromochloromethane | 1,2-Dibromomethane (EDB) | Dibromomethane |      |
|---|---------------------|-------------|---|------------------------|---------|--------------|--------------------|----------------------|----------|--------------|------------------|--------------------|-------------------|-------------------|-------------------|------------------|----------------------|---------------|--------------|------------|---------------|---------------|------------------------------|----------------------|--------------------------|----------------|------|
| Cas Number  |                     | 67-64-1     | 107-13-1                                    | 994-05-8               | 71-43-2 | 108-86-1     | 74-97-5            | 75-25-2              | 74-83-9  | 78-93-3      | 75-65-0          | 104-51-8           | 135-98-8          | 98-06-6           | 75-15-0           | 56-23-5          | 108-90-7             | 75-00-3       | 67-66-3      | 74-87-3    | 108-94-1      | 13440-24-9    | 124-48-1                     | 540-49-8             | 74-95-3                  |                |      |
| Residential Drinking Water Protection Criteria  |                     | 15,000      | 100; 52                                     | --                     | 100     | 550          | --                 | 1,600                | 1,600    | 200          | 2,60E+05         | 78,000             | 1,600             | 1,600             | 16,000            | 100              | 2,000                | 8,600         | 1,600        | 5,200      | 5.20E+06      | --            | 1,600                        | --                   | 1,600                    |                |      |
| Nonresidential Drinking Water Protection Criteria   |                     | 42,000      | 200   | --                     | 100     | 1,500        | --                 | 1,600                | 1,600    | 580          | 7.60E+05         | 2.20E+05           | 4,600             | 4,600             | 46,000            | 100              | 2,000                | 34,000        | 1,600        | 22,000     | 1.50E+07      | --            | 1,600                        | --                   | 4,600                    |                |      |
| Groundwater Surface Water Interface Protection Criteria   |                     | 34,000      | 100; 40                                     | --                     | 4,000   | --           | --                 | ID                   | ID       | 100          | 5.40E+07         | NA                 | ID                | ID                | ID                | 760              | 500                  | 22,000        | 7,000        | ID         | NA            | --            | ID                           | --                   | NA                       |                |      |
| Direct Contact Criteria   |                     | 4.32E+06    | 16,000                                      | 2.90E+07               | 180,000 | 540,000      | 110,000            | 110,000              | 820,000  | 320,000      | 120,000,000      | 3.9E+18 (C)        | 8.00E+06          | 8.00E+06          | 2.50E+06          | 7,200,000        | 96,000               | 1.4E+7 (C)    | 2,600,000    | 1,200,000  | 1,600,000     | 1,000,000,000 | --                           | 110,000              | --                       | 2,500,000      |      |
| Residential Volatilization to Indoor Air Pathway (VIAP)   |                     | 2.90E+05    | 1.2   | 34                     | 1.7     | 160          | --                 | 0.61                 | 45       | 0.90         | 31,000           | 3,200              | 550               | 3,800             | 0.64              | 52               | 0.31                 | 82            | 330          | 0.26       | 6.9           | 320           | --                           | 0.40                 | --                       | 3.5            |      |
| Nonresidential Volatilization to Indoor Air Pathway (VIAP)  |                     | 3.10E+06    | 34  | 600                    | 47      | 2,800        | --                 | 16                   | 1,300    | 16           | 370,000          | 57,000             | 9,800             | 66,000            | 11                | 920              | 8.7                  | 1,400         | 5,800        | 7.4        | 120           | 5,600         | --                           | 27                   | --                       | 62             |      |
| Sample ID   | Sample Depth (feet) | Sample Date | Reported in micrograms per kilogram (ug/kg) |                        |         |              |                    |                      |          |              |                  |                    |                   |                   |                   |                  |                      |               |              |            |               |               |                              |                      |                          |                |      |
| MW-104  | (14-15)             | 3/23/2020   | <1,900                                      | <190                   | <474    | <94.9        | <190               | <47.4                | <190     | <190         | <379             | <1,420             | <4,740            | <94.9             | <94.9             | <94.9            | <474                 | <94.9         | <94.9        | <474       | <94.9         | <474          | <94.9                        | <94.9                | <474                     | <94.9          | <474 |
| MW-105  | (12-13)             | 3/23/2020   | <923  | <92.3                  | <231    | <46.1        | <92.3              | <23.1                | <92.3    | <92.3        | <185             | <692               | <2,310            | <46.1             | <46.1             | <46.1            | <231                 | <46.1         | <46.1        | <231       | <46.1         | <231          | <46.1                        | <46.1                | <231                     | <46.1          | <231 |
| MW-106  | (5-6)               | 3/25/2020   | <1,040                                      | <104                   | <260    | <52.1        | <104               | <26.0                | <104     | <26.0        | <781             | <2,600             | <52.1             | <52.1             | <52.1             | <260             | <52.1                | <52.1         | <260         | <52.1      | <260          | <52.1         | <52.1                        | <104                 | <52.1                    | <260           |      |
| MW-107  | (6-7)               | 3/25/2020   | <1,290                                      | <129                   | <322    | <64.5        | <129               | <32.2                | <129     | <258         | <987             | <3,220             | <64.5             | <64.5             | <64.5             | <322             | <64.5                | <64.5         | <322         | <64.5      | <322          | <64.5         | <64.5                        | <129                 | <64.5                    | <322           |      |
| MW-108  | (4-5)               | 3/25/2020   | <1,600                                      | <160                   | <399    | <79.8        | <160               | <39.9                | <160     | <319         | <1,200           | <3,990             | <79.8             | <79.8             | <79.8             | <399             | <79.8                | <79.8         | <399         | <79.8      | <399          | <79.8         | <399                         | <79.8                | <160                     | <79.8          | <399 |
| MW-109  | (4-5)               | 3/25/2020   | <1,020                                      | <102                   | <255    | <51.0        | <102               | <25.5                | <102     | <204         | <764             | <2,550             | <51.0             | <51.0             | <51.0             | <255             | <51.0                | <51.0         | <255         | <51.0      | <255          | <51.0         | <255                         | <102                 | <51.0                    | <255           |      |
| MW-110  | (4-5)               | 3/25/2020   | <1,110                                      | <111                   | <276    | <55.3        | <111               | <27.6                | <111     | <221         | <829             | <2,760             | <55.3             | <55.3             | <55.3             | <276             | <55.3                | <55.3         | <276         | <55.3      | <276          | <55.3         | <55.3                        | <111                 | <55.3                    | <276           |      |
| MW-113  | (2-3)               | 3/23/2020   | <1,210                                      | <121                   | <303    | <60.6        | <121               | <30.3                | <121     | <242         | <909             | <3,030             | <60.6             | <60.6             | <60.6             | <303             | <60.6                | <60.6         | <303         | <60.6      | <303          | <60.6         | <60.6                        | <121                 | <60.6                    | <303           |      |
| MW-113  | (7-8)               | 3/24/2020   | <1,320                                      | <132                   | <329    | <65.8        | <132               | <32.9                | <132     | <263         | <987             | <3,290             | <65.8             | <65.8             | <65.8             | <329             | <65.8                | <65.8         | <329         | <65.8      | <329          | <65.8         | <65.8                        | <132                 | <65.8                    | <329           |      |
| MW-114  | (3-4)               | 3/24/2020   | <1,670                                      | <167                   | <468    | <93.7        | <167               | <46.8                | <167     | <375         | <1,410           | <4,680             | <93.7             | <93.7             | <93.7             | <468             | <93.7                | <93.7         | <468         | <93.7      | <468          | <93.7         | <93.7                        | <167                 | <93.7                    | <468           |      |
| MW-114  | (8-9)               | 3/24/2020   | <2,030                                      | <203                   | <507    | <101         | <203               | <50.7                | <203     | <406         | <1,520           | <5,070             | <101              | <101              | <101              | <507             | <101                 | <101          | <507         | <101       | <507          | <1,010        | <101                         | <203                 | <101                     | <507           |      |
| MW-115  | (2-3)               | 3/24/2020   | <2,390                                      | <239                   | <598    | <120         | <239               | <59.8                | <239     | <478         | <1,790           | <5,980             | <120              | <120              | <120              | <598             | <120                 | <120          | <598         | <120       | <598          | <1,200        | <120                         | <239                 | <120                     | <598           |      |
| MW-115  | (7-8)               | 3/24/2020   | <1,490                                      | <149                   | <372    | <74.4        | <149               | <37.2                | <149     | <297         | <1,120           | <3,720             | <74.4             | <74.4             | <74.4             | <372             | <74.4                | <74.4         | <372         | <74.4      | <372          | <74.4         | <74.4                        | <149                 | <74.4                    | <372           |      |
| MW-116  | (7-8)               | 3/30/2020   | <1,330                                      | <133                   | <333    | <66.5        | <133               | <33.3                | <133     | <266         | <998             | <3,330             | <66.5             | <66.5             | <66.5             | <333             | <66.5                | <66.5         | <333         | <66.5      | <333          | <66.5         | <66.5                        | <133                 | <66.5                    | <333           |      |
| MW-117  | (6-7)               | 3/30/2020   | <2,380                                      | <238                   | <595    | <119         | <238               | <59.5                | <238     | <476         | <1,790           | <5,950             | <119              | <119              | <119              | <595             | <119                 | <119          | <595         | <119       | <595          | <1,190        | <119                         | <238                 | <119                     | <595           |      |
| MW-118  | (10-11)             | 3/30/2020   | <1,730                                      | <173                   | <433    | <86.6        | <173               | <43.3                | <173     | <347         | <1,300           | <4,330             | <86.6             | <86.6             | <86.6             | <433             | <86.6                | <86.6         | <433         | <86.6      | <433          | <86.6         | <86.6                        | <173                 | <86.6                    | <433           |      |
| MW-119  | (6-7)               | 4/21/2020   | <1,310                                      | <131                   | <327    | <65.4        | <131               | <32.7                | <131     | <262         | <981             | <3,270             | <65.4             | <65.4             | <65.4             | <327             | <65.4                | <65.4         | <327         | <65.4      | <327          | <65.4         | <65.4                        | <131                 | <65.4                    | <327           |      |
| MW-120  | (4-5)               | 4/21/2020   | <1,470                                      | <147                   | <369    | <73.7        | <147               | <36.9                | <147     | <295         | <1,110           | <3,690             | <73.7             | <73.7             | <73.7             | <369             | <73.7                | <73.7         | <369         | <73.7      | <369          | <73.7         | <73.7                        | <147                 | <73.7                    | <369           |      |
| MW-121  | (9-10)              | 4/21/2020   | <1,370                                      | <137                   | <343    | <68.5        | <137               | <34.3                | <137     | <274         | <1,030           | <3,430             | <68.5             | <68.5             | <68.5             | <343             | <68.5                | <68.5         | <343         | <68.5      | <343          | <68.5         | <68.5                        | <137                 | <68.5                    | <343           |      |
| MW-122  | (4-5)               | 6/15/2020   | <1050                                       | <105                   | <264    | <52.7        | <105               | <26.4                | <105     | <211         | <791             | <2,640             | <52.7             | <52.7             | <52.7             | <264             | <52.7                | <52.7         | <264         | <52.7      | <264          | <52.7         | <52.7                        | <105                 | <52.7                    | <264           |      |
| MW-123  | (4-5)               | 6/15/2020   | <957  | <95.7                  | <239    | <47.9        | <95.7              | <23.9                | <95.7    | <191         | <718             | <2,390             | <47.9             | <47.9             | <47.9             | <239             | <47.9                | <47.9         | <239         | <47.9      | <239          | <47.9         | <47.9                        | <95.7                | <47.9                    | <239           |      |
| MW-124  | (4-5)               | 6/15/2020   | <986  | <98.6                  | <247    | <49.3        | <98.6              | <24.7                | <98.6    | <197         | <740             | <2,470             | <49.3             | <49.3             | <49.3             | <247             | <49.3                | <49.3         | <247         | <49.3      | <247          | <49.3         | <49.3                        | <98.6                | <49.3                    | <247           |      |
| MW-125  | (4-5)               | 6/16/2020   | <1050                                       | <105                   | <264    | <52.7        | <105               | <26.4                | <105     | <211         | <791             | <2,640             | <52.7             | <52.7             | <52.7             | <264             | <52.7                | <52.7         | <264         | <52.7      | <264          | <52.7         | <52.7                        | <105                 | <52.7                    | <264           |      |
| MW-126  | (4-5)               | 6/15/2020   | <950  | <95.0                  | <237    | <47.5        | <95.0              | <23.7                | <95.0    | <190         | <712             | <2,370             | <47.5             | <47.5             | <47.5             | <237             | <47.5                | <47.5         | <237         | <47.5      | <237          | <47.5         | <47.5                        | <95.0                | <47.5                    | <237           |      |
| MW-126  | (7.5-8.5)           | 6/15/2020   | <995  | <99.5                  | <249    | <49.7        | <99.5              | <24.9                | <99.5    | <199         | <746             | <2,490             | <49.7             | <49.7             | <49.7             | <249             | <49.7                | <49.7         | <249         | <49.7      | <249          | <49.7         | <49.7                        | <99.5                | <49.7                    | <249           |      |
| MW-127  | (6-7)               | 6/15/2020   | <1220                                       | <122                   | <306    | <61.2        | <122               | <30.6                | <122     | <245         | <918             | <3,060             | <61.2             | <61.2             | <61.2             | <306             | <61.2                | <61.2         | <306         | <61.2      | <306          | <61.2         | <61.2                        | <122                 | <61.2                    | <306           |      |
| MW-127  | (10-11)             | 6/15/2020   | <1070                                       | <107                   | <267    | <53.5        | <107               | <26.7                | <107     | <214         | <802             | <2,670             | <53.5             | <53.5             | <53.5             | <267             | <53.5                | <53.5         | <267         | <53.5      | <267          | <53.5         | <53.5                        | <107                 | <53.5                    | <267           |      |
| MW-128  | (4-5)               | 6/15/2020   | <1310                                       | <131                   | <327    | <65.5        | <131               | <32.7                | <131     | <262         | <982             | <3,270             | <65.5             | <65.5             | <65.5             | <327             | <65.5                | <65.5         | <327         | <65.5      | <327          | <65.5         | <65.5                        | <131                 | <65.5                    | <327           |      |
| MW-128  | (8-9)               | 6/15/2020   | <1270                                       | <127                   | <317    | <63.5        | <127               | <31.7                | <127     | <254         | <952             | <3,170             | <63.5             | <63.5             | <63.5             | <317             | <63.5                | <63.5         | <317         | <63.5      | <317          | <63.5         | <63.5                        | <127                 | <63.5                    | <317           |      |
| MW-129  | (3-4)               | 6/15/2020   | <1020                                       | <102                   | <255    | <51.0        | <102               | <25.5                | <102     | <204         | <766             | <2,550             | <51.0             | <51.0             | <51.0             | <255             | <51.0                | <51.0         | <255         | <51.0      | <255          | <51.0         | <51.0                        | <102                 | <51.0                    | <255           |      |
| MW-130  | (4-5)               | 6/15/2020   | <991  | <99.1                  | <248    | <49.6        | <99.1              | <24.8                | <99.1    | <198</       |                  |                    |                   |                   |                   |                  |                      |               |              |            |               |               |                              |                      |                          |                |      |

Table 1A- Summary of Soil Analytical Results - Volatile Organic Compounds  
Former Hayes Lemmerz Site  
W. Eight Mile Road, Ferndale, Oakland County, Michigan

| EGLE Part 201 Generic Cleanup Criteria and Screening Levels, dated January 10, 2018; GSI Criteria Updated June 23, 2018 (ug/kg); VIAP Screening Levels Updated September 4, 2020. |                     | 1,2-Dichlorobenzene | 1,3-Dichlorobenzene                         | 1,4-Dichlorobenzene | trans-1,4-Dichloro-2-butene | Dichlorodifluoromethane | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | trans-1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,2-Dichloropropane | trans-1,3-Dichloropropane | Diethyl ether (Ethyl ether) | Diisopropyl ether | Ethylbenzene | Ethylhexyl ether | Hexachloroethane | Hexane   | Iodomethane | Isopropylbenzene (Cumene) | Diisopropylamine | Methylene Chloride | 2-Methyl-naphthalene | 4-Methyl-2-pentene (MIBK) |        |        |
|---|---------------------|---------------------|---|---------------------|-----------------------------|-------------------------|--------------------|--------------------|--------------------|--------------------------|---------------------|-------------------------|---------------------------|-----------------------------|-------------------|--------------|------------------|------------------|----------|-------------|---------------------------|------------------|--------------------|----------------------|---------------------------|--------|--------|
| Cas Number  |                     | 95-50-1             | 541-73-1                                    | 106-46-7            | 110-57-6                    | 75-71-8                 | 75-34-3            | 107-06-2           | 75-35-4            | 156-59-2                 | 156-60-5            | 78-87-5                 | 638-04-0                  | 60-29-7                     | 108-20-3          | 100-41-4     | 637-92-3         | 118-74-1         | 591-78-6 | 74-88-4     | 98-62-8                   | 99-87-6          | 75-09-2            | 91-57-6              | 108-10-1                  |        |        |
| Residential Drinking Water Protection Criteria  |                     | 14,000              | 170   | 1700                | --                          | 95,000                  | 18,000             | 100                | 140                | 1,400                    | 2,000               | 100                     | --                        | 200                         | --                | 1,500        | 980              | 1,800            | 20,000   | --          | 91,000                    | --               | 100                | 57,000               | 36,000                    |        |        |
| Nonresidential Drinking Water Protection Criteria   |                     | 14,000              | 480   | 1700                | --                          | 2.70E+05                | 50,000             | 100                | 140                | 1,400                    | 2,000               | 100                     | --                        | 200                         | --                | 1,500        | 980              | 1,800            | 58,000   | --          | 260,000                   | --               | 100                | 1.70E+05             | 1.00E+05                  |        |        |
| Groundwater Surface Water Interface Protection Criteria   |                     | 280                 | 680   | 360                 | --                          | ID                      | 15,000             | 7,200              | 2,600              | 12,000                   | 30,000 (X)          | 4,600 (X)               | --                        | ID                          | --                | 360          | ID               | 350              | ID       | --          | 3,200                     | --               | 30,000 (X)         | 4,200                | ID                        |        |        |
| Direct Contact Criteria   |                     | 6.3E+7 (C)          | 6.6E+5 (C)                                  | 1.92E+06            | --                          | 52,000,000              | 27,000,000         | 4.20E+05           | 200,000            | 2,500,000                | 3,800,000           | 6.6E+5 (C)              | --                        | 110,000,000                 | --                | 2.2E+7 (C)   | 2.20E+07         | 2.30E+05         | 3.20E+07 | --          | 8.0E+7 (C)                | --               | 5.8E+6 (C)         | 2.60E+07             | 5.60E+07                  |        |        |
| Residential Volatilization to Indoor Air Pathway (VIAP)   |                     | 1,500               | 10  | 23                  | --                          | 12                      | 2.6                | 0.82               | 12                 | 2.1                      | 12                  | 2.1                     | --                        | 350                         | 190               | 12           | --               | 3.2              | 210      | --          | 3.8                       | --               | 130                | 1,700                | 3,300                     |        |        |
| Nonresidential Volatilization to Indoor Air Pathway (VIAP)  |                     | 26,000              | 180   | 660                 | --                          | 220                     | 74                 | 23                 | 220                | 37                       | 210                 | 37                      | --                        | 6,200                       | 2,300             | 340          | --               | 92               | 3,800    | --          | 110                       | --               | 2,300              | 30,000               | 40,000                    |        |        |
| Sample ID   | Sample Depth (feet) | Sample Date         | Reported in micrograms per kilogram (ug/kg) |                     |                             |                         |                    |                    |                    |                          |                     |                         |                           |                             |                   |              |                  |                  |          |             |                           |                  |                    |                      |                           |        |        |
| MW-104  | (14-15')            | 3/23/2020           | <190  | <190                | <190                        | <190                    | <474               | <94.9              | <94.9              | <94.9                    | <94.9               | <94.9                   | <94.9                     | <190                        | <190              | <379         | <474             | <94.9            | <569     | <4,740      | <190                      | <474             | <47.4              | <190                 | <626                      | <4,740 |        |
| MW-105  | (12-13')            | 3/23/2020           | <92.3                                       | <92.3               | <92.3                       | <92.3                   | <231               | <46.1              | <46.1              | <46.1                    | <46.1               | <46.1                   | <46.1                     | <92.3                       | <92.3             | <185         | <231             | <46.1            | <231     | <277        | <2,310                    | <92.3            | <231               | <23.1                | <92.3                     | <304   | <2,310 |
| MW-106  | (5-6')              | 3/25/2020           | <104  | <104                | <104                        | <104                    | <260               | <52.1              | <52.1              | <52.1                    | <52.1               | <52.1                   | <52.1                     | <104                        | <104              | <208         | <260             | <52.1            | <260     | <312        | <2,600                    | <104             | <260               | <26.0                | <104                      | <344   | <2,600 |
| MW-107  | (6-7')              | 3/25/2020           | <129  | <129                | <129                        | <129                    | <322               | <64.5              | <64.5              | <64.5                    | <64.5               | <64.5                   | <64.5                     | <129                        | <129              | <258         | <322             | <64.5            | <322     | <387        | <3,220                    | <129             | <322               | <32.2                | <129                      | <426   | <3,220 |
| MW-108  | (4-5')              | 3/25/2020           | <160  | <160                | <160                        | <160                    | <399               | <79.8              | <79.8              | <79.8                    | <79.8               | <79.8                   | <79.8                     | <160                        | <160              | <319         | <399             | <79.8            | <399     | <479        | <3,990                    | <160             | <399               | <39.9                | <160                      | <527   | <3,990 |
| MW-109  | (4-5')              | 3/25/2020           | <102  | <102                | <102                        | <102                    | <255               | <51.0              | <51.0              | <51.0                    | <51.0               | <51.0                   | <51.0                     | <102                        | <102              | <204         | <255             | <51.0            | <255     | <306        | <2,550                    | <102             | <255               | <25.5                | <102                      | <336   | <2,550 |
| MW-110  | (4-5')              | 3/25/2020           | <111  | <111                | <111                        | <111                    | <276               | <55.3              | <55.3              | <55.3                    | <55.3               | <55.3                   | <55.3                     | <111                        | <111              | <221         | <276             | <55.3            | <276     | <332        | <2,760                    | <111             | <276               | <27.6                | <111                      | <365   | <2,760 |
| MW-113  | (2-3')              | 3/23/2020           | <121  | <121                | <121                        | <121                    | <303               | <60.6              | <60.6              | <60.6                    | <60.6               | <60.6                   | <60.6                     | <121                        | <121              | <242         | <303             | <60.6            | <303     | <364        | <3,030                    | <121             | <303               | <30.3                | <121                      | <400   | <3,030 |
| MW-113  | (7-8')              | 3/24/2020           | <132  | <132                | <132                        | <132                    | <303               | <60.6              | <60.6              | <60.6                    | <60.6               | <60.6                   | <60.6                     | <132                        | <132              | <263         | <329             | <60.6            | <329     | <395        | <3,290                    | <132             | <329               | <32.9                | <132                      | <434   | <3,290 |
| MW-114  | (3-4')              | 3/24/2020           | <187  | <187                | <187                        | <187                    | <468               | <93.7              | <93.7              | <93.7                    | <93.7               | <93.7                   | <93.7                     | <187                        | <187              | <375         | <468             | <93.7            | <468     | <562        | <4,680                    | <187             | <468               | <46.8                | <187                      | <618   | <4,680 |
| MW-114  | (8-9')              | 3/24/2020           | <203  | <203                | <203                        | <203                    | <507               | <101               | <101               | <101                     | <101                | <101                    | <101                      | <203                        | <203              | <406         | <507             | <101             | <507     | <608        | <5,070                    | <203             | <507               | <50.7                | <203                      | <669   | <5,070 |
| MW-115  | (2-3')              | 3/24/2020           | <239  | <239                | <239                        | <239                    | <598               | <120               | <120               | <120                     | <120                | <120                    | <120                      | <239                        | <239              | <478         | <598             | <120             | <598     | <718        | <5,980                    | <239             | <598               | <59.8                | <239                      | <789   | <5,980 |
| MW-115  | (7-8')              | 3/24/2020           | <149  | <149                | <149                        | <149                    | <372               | <74.4              | <74.4              | <74.4                    | <74.4               | <74.4                   | <74.4                     | <149                        | <149              | <297         | <372             | <74.4            | <372     | <446        | <3,720                    | <149             | <372               | <37.2                | <149                      | <491   | <3,720 |
| MW-116  | (7-8')              | 3/30/2020           | <133  | <133                | <133                        | <133                    | <333               | <66.5              | <66.5              | <66.5                    | <66.5               | <66.5                   | <66.5                     | <133                        | <133              | <266         | <333             | <66.5            | <333     | <399        | <3,330                    | <133             | <333               | <33.3                | <133                      | <439   | <3,330 |
| MW-117  | (6-7')              | 3/30/2020           | <238  | <238                | <238                        | <238                    | <595               | <119               | <119               | <119                     | <119                | <119                    | <119                      | <238                        | <238              | <476         | <595             | <119             | <595     | <714        | <5,950                    | <238             | <595               | <59.5                | <238                      | <786   | <5,950 |
| MW-118  | (10-11')            | 3/30/2020           | <173  | <173                | <173                        | <173                    | <433               | <86.6              | <86.6              | <86.6                    | <86.6               | <86.6                   | <86.6                     | <173                        | <173              | <347         | <433             | <86.6            | <433     | <520        | <4,330                    | <173             | <433               | <43.3                | <173                      | <572   | <4,330 |
| MW-119  | (6-7')              | 4/21/2020           | <131  | <131                | <131                        | <131                    | <327               | <65.4              | <65.4              | <65.4                    | <65.4               | <65.4                   | <65.4                     | <131                        | <131              | <262         | <327             | <65.4            | <327     | <393        | <3,270                    | <131             | <327               | <32.7                | <131                      | <432   | <3,270 |
| MW-120  | (4-5')              | 4/21/2020           | <147  | <147                | <147                        | <147                    | <369               | <73.7              | <73.7              | <73.7                    | <73.7               | <73.7                   | <73.7                     | <147                        | <147              | <295         | <369             | <73.7            | <369     | <442        | <3,690                    | <147             | <369               | <36.9                | <147                      | <487   | <3,690 |
| MW-121  | (9-10')             | 4/21/2020           | <137  | <137                | <137                        | <137                    | <343               | <68.5              | <68.5              | <68.5                    | <68.5               | <68.5                   | <68.5                     | <137                        | <137              | <274         | <343             | <68.5            | <343     | <411        | <3,430                    | <137             | <343               | <34.3                | <137                      | <452   | <3,430 |
| MW-122  | (4-5')              | 6/15/2020           | <105  | <105                | <105                        | <105                    | <264               | <52.7              | <52.7              | <52.7                    | <52.7               | <52.7                   | <52.7                     | <105                        | <105              | <211         | <264             | <52.7            | <264     | <316        | <2,640                    | <105             | <264               | <26.4                | <105                      | <348   | <2,640 |
| MW-123  | (4-5')              | 6/15/2020           | <95.7                                       | <95.7               | <95.7                       | <95.7                   | <239               | <47.9              | <47.9              | <47.9                    | <47.9               | <47.9                   | <47.9                     | <95.7                       | <95.7             | <191         | <239             | <47.9            | <239     | <287        | <2,390                    | <95.7            | <239               | <23.9                | <95.7                     | <316   | <2,390 |
| MW-124  | (4-5')              | 6/15/2020           | <98.6                                       | <98.6               | <98.6                       | <98.6                   | <247               | <49.3              | <49.3              | <49.3                    | <49.3               | <49.3                   | <49.3                     | <98.6                       | <98.6             | <197         | <247             | <49.3            | <247     | <296        | <2,470                    | <98.6            | <247               | <24.7                | <98.6                     | <326   | <2,470 |
| MW-125  | (4-5')              | 6/16/2020           | <105  | <105                | <105                        | <105                    | <264               | <52.7              | <52.7              | <52.7                    | <52.7               | <52.7                   | <52.7                     | <105                        | <105              | <211         | <264             | <52.7            | <264     | <316        | <2,640                    | <105             | <264               | <26.4                | <105                      | <348   | <2,640 |
| MW-126  | (4-5')              | 6/15/2020           | <95.0                                       | <95.0               | <95.0                       | <95.0                   | <237               | <47.5              | <47.5              | <47.5                    | <47.5               | <47.5                   | <47.5                     | <95.0                       | <95.0             | <190         | <237             | <47.5            | <237     | <285        | <2,370                    | <95.0            | <237               | <23.7                | <95.0                     | <313   | <2,370 |
| MW-126  | (7.5-8.5')          | 6/15/2020           | <99.5                                       | <99.5               | <99.5                       | <99.5                   | <249               | <49.7              | <49.7              | <49.7                    | <49.7               | <49.7                   | <49.7                     | <99.5                       | <99.5             | <199         | <249             | <49.7            | <249     | <298        | <2,490                    | <99.5            | <249               | <24.9                | <99.5                     | <328   | <2,490 |
| MW-127  | (6-7')              | 6/15/2020           | <122  | <122                | <122                        | <122                    | <306               | <61.2              | <61.2              | <61.2                    | <61.2               | <61.2                   | <61.2                     | <122                        | <122              | <245         | <306             | <61.2            | <306     | <367        | <3,060                    | <122             | <306               | <30.6                | <122                      | <404   | <3,060 |
| MW-127  | (10-11')            | 6/15/2020           | <107  | <107                | <107                        | <107                    | <267               | <53.5              | <53.5              | <53.5                    | <53.5               | <53.5                   | <53.5                     | <107                        | <107              | <214         | <267             | <53.5            | <267     | <321        | <2,670                    | <107             | <267               | <26.7                | <107                      | <353   | <2,670 |
| MW-128  | (4-5')              | 6/15/2020           | <131  | <131                | <131                        | <131                    | <327               | <65.5              | <65.5              | <65.5                    | <65.5               | <65.5                   | <65.5                     | <131                        | <131              | <262         | <327             | <65.5            | <327     | <393        | <3,270                    | <131             | <327               | <32.7                | <131                      | <432   | <3,270 |
| MW-128  | (8-9')              | 6/15/2020           | <127  | <127                | <127                        | <127                    | <317               | <63.5              | <63.5              | <63.5                    | <63.5               | <63.5                   | <63.5                     | <127                        | <127              | <254         | <317             | <63.5            | <317     | <381        | <3,170                    | <127             | <317               | <31.7                | <127                      | <419   | <3,170 |
| MW-129  | (3-4')              | 6/15/2020           | <102  | <102                | <102                        | <102                    | <255               | <51.0              | <51.0              | <51.0                    | <51.0               | <51.0                   | <51.0                     | <102                        | <102              | <204         | <255             | <51.0            | <255     | <306        | <2,550                    | <102             | <255               | <25.5                |                           |        |        |





Table 1C - Summary of Soil Analytical Results - Metals  
Former Hayes Lemmerz Site  
W. Eight Mile Road, Ferndale, Oakland County, Michigan

| EGLE Part 201 Generic Cleanup Criteria and Screening Levels, dated January 10, 2018; GSI Criteria Updated June 25, 2018 (ug/kg); VIAP Screening Levels Updated September 4, 2020. |                     |             | Aluminum                                    | Antimony  | Arsenic   | Barium    | Beryllium | Boron     | Cadmium   | Calcium       | Chromium (III) | Chromium (VI) | Cobalt    | Copper    | Iron       | Lead      | Magnesium | Manganese | Mercury   | Molybdenum | Nickel    | Potassium | Selenium  | Silver    | Sodium     | Strontium | Tantalum  | Titanium  | Vanadium  | Zinc      |    |
|---|---------------------|-------------|---|-----------|-----------|-----------|-----------|-----------|-----------|---------------|----------------|---------------|-----------|-----------|------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|-----------|----|
| CAS Number  | 7429-90-5           | 7440-36-0   | 7440-38-2                                   | 7440-38-2 | 7440-38-2 | 7440-38-2 | 7440-41-7 | 7440-42-8 | --        | 7440-43-9     | 16065-83-1     | 16540-29-9    | 7440-48-4 | 7440-50-8 | 7439-89-6  | 7439-92-1 | 7439-95-4 | 7439-96-5 | 7439-97-6 | 7439-98-7  | 7440-02-0 | 7440-09-7 | 7782-49-2 | 7440-22-4 | 17341-25-2 | 7440-26-4 | 7440-28-0 | 7440-32-6 | 7440-62-2 | 7440-66-6 |    |
| Statewide Default Background Levels (SDBC)  | 6,900,000           | NA          | 5,800                                       | 75,000    | NA        | NA        | NA        | NA        | 1,200     | 18,000        | NA             | NA            | 6,800     | 32,000    | 12,000,000 | 21,000    | NA        | 440,000   | 130       | NA         | 20,000    | --        | 410       | 1,000     | NA         | NA        | NA        | NA        | NA        | 47,000    |    |
| Residential Drinking Water Protection Criteria  | 1,000               | 4,300       | 4,600                                       | 1,300,000 | 51,000    | 10,000    | --        | --        | 6,000     | 1,000,000,000 | 30,000         | 800           | 5,800,000 | 6,000     | 700,000    | 8,000,000 | 1,000     | 1,700     | 1,500     | 100,000    | --        | 4,000     | 4,500     | 4,600,000 | 92,000     | 2,300     | --        | 72,000    | 2,400,000 |           |    |
| Nonresidential Drinking Water Protection Criteria   | 1,000               | 4,300       | 4,600                                       | 1,300,000 | 51,000    | 10,000    | --        | --        | 6,000     | 1,000,000,000 | 30,000         | 2,000         | 5,800,000 | 6,000     | 700,000    | 8,000,000 | 1,000     | 1,700     | 1,500     | 100,000    | --        | 4,000     | 4,500     | 4,600,000 | 92,000     | 2,300     | --        | 72,000    | 2,400,000 |           |    |
| Groundwater Surface Water Interface Protection Criteria   | NA                  | 94,000      | 4,600                                       | (G)       | (G)       | 140,000   | --        | --        | (G,X)     | (G,X)         | 3,300          | 2,000         | (G)       | NA        | (G,X)      | (G,X)     | (G,X)     | 50, 1.2   | 64,000    | (G)        | --        | 400       | 100, 27   | NA        | 420,000    | 4,200     | --        | 430,000   | (G)       |           |    |
| Direct Contact Criteria   | 37,000              | 670,000     | 37,000                                      | 1,300,000 | 1,600,000 | 3,500,000 | --        | --        | 2,100,000 | 1,000,000     | 9,200,000      | 9,200,000     | 7,300,000 | 5,800,000 | 1,000,000  | 9,000,000 | 9,000,000 | 5,800,000 | 9,600,000 | 1,500,000  | --        | 9,600,000 | 9,000,000 | 1,000,000 | 1,000,000  | 1,000,000 | 1,000,000 | 1,000,000 | 5,500,000 | 6,200,000 |    |
| Residential Volatilization to Indoor Air Pathway (VIAP)   | NLV                 | NLV         | NLV   | NLV       | NLV       | NLV       | --        | --        | NLV       | NLV           | NLV            | NLV           | NLV       | NLV       | NLV        | NLV       | NLV       | NLV       | NLV       | NLV        | 22        | NLV       | NLV       | NLV       | NLV        | NLV       | NLV       | NLV       | NLV       | NLV       |    |
| Nonresidential Volatilization to Indoor Air Pathway (VIAP)  | NLV                 | NLV         | NLV   | NLV       | NLV       | NLV       | --        | --        | NLV       | NLV           | NLV            | NLV           | NLV       | NLV       | NLV        | NLV       | NLV       | NLV       | NLV       | NLV        | 390       | NLV       | NLV       | NLV       | NLV        | NLV       | NLV       | NLV       | NLV       | NLV       |    |
| Sample ID   | Sample Depth (feet) | Sample Date | Reported in micrograms per kilogram (ug/kg) |           |           |           |           |           |           |               |                |               |           |           |            |           |           |           |           |            |           |           |           |           |            |           |           |           |           |           |    |
| MW-101  | (2-3)               | 3/23/2020   | NA  | NA        | <2.110    | 13,300    | NA        | NA        | NA        | <2.10         | 5,900          | <2.200        | NA        | NA        | NA         | <10,500   | NA        | NA        | <59.9     | NA         | NA        | NA        | NA        | <1,050    | <105       | NA        | NA        | NA        | NA        | NA        | NA |
| MW-102  | (2-3)               | 3/23/2020   | NA  | NA        | 2,190     | 16,800    | NA        | NA        | NA        | <2.10         | 10,500         | <2.100        | NA        | NA        | NA         | <10,300   | NA        | NA        | 70.6      | NA         | NA        | NA        | NA        | <1,050    | <105       | NA        | NA        | NA        | NA        | NA        | NA |
| MW-103  | (2-3)               | 3/23/2020   | NA  | NA        | <2.470    | 20,800    | NA        | NA        | NA        | <2.67         | 6,600          | <2.700        | NA        | NA        | NA         | <12,400   | NA        | NA        | <76.9     | NA         | NA        | NA        | NA        | <1,340    | <134       | NA        | NA        | NA        | NA        | NA        | NA |
| MW-104  | (2-3)               | 3/23/2020   | NA  | NA        | <2.240    | 17,500    | NA        | NA        | NA        | <2.17         | 6,300          | <2.300        | NA        | NA        | NA         | <11,200   | NA        | NA        | <62.3     | NA         | NA        | NA        | NA        | <1,080    | <108       | NA        | NA        | NA        | NA        | NA        | NA |
| MW-105  | (2-3)               | 3/23/2020   | NA  | NA        | <2.090    | 18,200    | NA        | NA        | NA        | <2.21         | 5,600          | <2.200        | NA        | NA        | NA         | <10,400   | NA        | NA        | <62.7     | NA         | NA        | NA        | NA        | <1,100    | <110       | NA        | NA        | NA        | NA        | NA        | NA |
| MW-106  | (2-3)               | 3/25/2020   | NA  | NA        | <1.960    | 5,360     | NA        | NA        | NA        | <2.05         | 5,700          | <2.100        | NA        | NA        | NA         | <9,790    | NA        | NA        | <58.9     | NA         | NA        | NA        | NA        | <1,030    | <103       | NA        | NA        | NA        | NA        | NA        | NA |
| MW-107  | (2-3)               | 3/25/2020   | NA  | NA        | <2.180    | 9,360     | NA        | NA        | NA        | <2.10         | 8,800          | <2.200        | NA        | NA        | NA         | <10,900   | NA        | NA        | <60.1     | NA         | NA        | NA        | NA        | <1,050    | <105       | NA        | NA        | NA        | NA        | NA        | NA |
| MW-108  | (2-3)               | 3/25/2020   | NA  | NA        | <1.960    | 12,200    | NA        | NA        | NA        | <2.09         | 7,200          | <2.200        | NA        | NA        | NA         | <9,620    | NA        | NA        | <64.0     | NA         | NA        | NA        | NA        | <2,090    | <105       | NA        | NA        | NA        | NA        | NA        | NA |
| MW-109  | (1-2)               | 3/25/2020   | NA  | NA        | <2.040    | 13,800    | NA        | NA        | NA        | <2.11         | 5,400          | <2.200        | NA        | NA        | NA         | <10,200   | NA        | NA        | <60.7     | NA         | NA        | NA        | NA        | <1,250    | <105       | NA        | NA        | NA        | NA        | NA        | NA |
| MW-110  | (2-3)               | 3/25/2020   | NA  | NA        | <2.100    | 9,950     | NA        | NA        | NA        | <2.02         | 5,300          | <2.100        | NA        | NA        | NA         | <10,500   | NA        | NA        | <57.7     | NA         | NA        | NA        | NA        | <2,020    | <101       | NA        | NA        | NA        | NA        | NA        | NA |
| MW-111  | (3-4)               | 3/25/2020   | NA  | NA        | <2.030    | 7,070     | NA        | NA        | NA        | <1.98         | 5,400          | <2.100        | NA        | NA        | NA         | <10,100   | NA        | NA        | <57.8     | NA         | NA        | NA        | NA        | <990      | <99.0      | NA        | NA        | NA        | NA        | NA        | NA |
| MW-112  | (3-4)               | 3/25/2020   | NA  | NA        | <2.020    | 8,750     | NA        | NA        | NA        | <2.19         | 4,700          | <2.300        | NA        | NA        | NA         | <10,100   | NA        | NA        | <66.7     | NA         | NA        | NA        | NA        | <1,100    | <110       | NA        | NA        | NA        | NA        | NA        | NA |
| MW-113  | (2-3)               | 3/23/2020   | NA  | NA        | 3,260     | 24,700    | NA        | NA        | NA        | 249           | 7,200          | <2.200        | NA        | NA        | NA         | 13,800    | NA        | NA        | <61.5     | NA         | NA        | NA        | NA        | <1,090    | <109       | NA        | NA        | NA        | NA        | NA        | NA |
| MW-113  | (7-8)               | 3/24/2020   | NA  | NA        | <2.140    | 6,370     | NA        | NA        | NA        | <2.10         | 5,600          | <2.200        | NA        | NA        | NA         | <10,700   | NA        | NA        | <61.3     | NA         | NA        | NA        | NA        | <2,100    | <105       | NA        | NA        | NA        | NA        | NA        | NA |
| MW-114  | (3-4)               | 3/24/2020   | NA  | NA        | 7,760     | 225,000   | NA        | NA        | NA        | 2,800         | 11,600         | <2.400        | NA        | NA        | NA         | 75,900    | NA        | NA        | 218       | NA         | NA        | NA        | NA        | <2,410    | 2,890      | NA        | NA        | NA        | NA        | NA        | NA |
| MW-114  | (8-9)               | 3/24/2020   | NA  | NA        | 6,350     | 63,900    | NA        | NA        | NA        | 263           | 16,300         | <2.300        | NA        | NA        | NA         | 21,500    | NA        | NA        | <67.7     | NA         | NA        | NA        | NA        | <2,190    | <110       | NA        | NA        | NA        | NA        | NA        | NA |
| MW-115  | (2-3)               | 3/24/2020   | NA  | NA        | 6,680     | 59,000    | NA        | NA        | NA        | <2.34         | 17,700         | <2.300        | NA        | NA        | NA         | <11,700   | NA        | NA        | <66.1     | NA         | NA        | NA        | NA        | <2,340    | <117       | NA        | NA        | NA        | NA        | NA        | NA |
| MW-115  | (7-8)               | 3/24/2020   | NA  | NA        | 24,600    | 1,950,000 | NA        | NA        | NA        | 77,000        | 179,000        | <2.500        | NA        | NA        | NA         | 895,000   | NA        | NA        | 252       | NA         | NA        | NA        | NA        | <1,220    | 1,390      | NA        | NA        | NA        | NA        | NA        | NA |
| MW-116  | (2-3)               | 3/30/2020   | NA  | NA        | <2.120    | 13,500    | NA        | NA        | NA        | <2.08         | 8,800          | <2.200        | NA        | NA        | NA         | <10,600   | NA        | NA        | <64.9     | NA         | NA        | NA        | NA        | 312       | <104       | NA        | NA        | NA        | NA        | NA        | NA |
| MW-116  | (7-8)               | 3/30/2020   | NA  | NA        | <2.170    | 7,980     | NA        | NA        | NA        | <2.17         | 3,900          | <2.300        | NA        | NA        | NA         | <10,800   | NA        | NA        | <62.5     | NA         | NA        | NA        | NA        | <217      | <109       | NA        | NA        | NA        | NA        | NA        | NA |
| MW-117  | (2-3)               | 3/30/2020   | NA  | NA        | <2.130    | 8,430     | NA        | NA        | NA        | <2.20         | 5,800          | <2.200        | NA        | NA        | NA         | <10,600   | NA        | NA        | <65.4     | NA         | NA        | NA        | NA        | 369       | <110       | NA        | NA        | NA        | NA        | NA        | NA |
| MW-117  | (6-7)               | 3/30/2020   | NA  | NA        | <2.190    | 6,150     | NA        | NA        | NA        | <2.12         | 4,100          | <2.300        | NA        | NA        | NA         | <10,900   | NA        | NA        | <64.3     | NA         | NA        | NA        | NA        | <1,060    | <106       | NA        | NA        | NA        | NA        | NA        | NA |
| MW-118  | (10-11)             | 3/30/2020   | NA  | NA        | <1.980    | 6,390     | NA        | NA        | NA        | <1.97         | 4,500          | <2.100        | NA        | NA        | NA         | <9,920    | NA        | NA        | <58.3     | NA         | NA        | NA        | NA        | <1.97     | <98.4      | NA        | NA        | NA        | NA        | NA        | NA |
| MW-118  | (2-3)               | 3/30/2020   | NA  | NA        | 17,000    | 7,340     | NA        | NA        | NA        | <2.00         | 4,900          | <2.200        | NA        | NA        | NA         | <9,870    | NA        | NA        | <64.0     | NA         | NA        | NA        | NA        | <2.00     | <99.8      | NA        | NA        | NA        | NA        | NA        | NA |
| MW-119  | (2-3)               | 4/21/2020   | NA  | NA        | 6,390     | 36,300    | NA        | NA        | NA        | 232           | 9,240          | NA            | NA        | NA        | NA         | <11,800   | NA        | NA        | <64.3     | NA         | NA        | NA        | NA        | <2,540    | <116       | NA        | NA        | NA        | NA        | NA        | NA |
| MW-119  | (6-7)               | 4/21/2020   | NA  | NA        | <2.230    | 6,180     | NA        | NA        | NA        | <2.21         | 5,080          | NA            | NA        | NA        | NA         | <11,200   | NA        | NA        | <59.3     | NA         | NA        | NA        | NA        | <1,110    | <111       | NA        | NA        | NA        | NA        | NA        | NA |
| MW-120  | (2-3)               | 4/21/2020   | NA  | NA        | <2.060    | 11,200    | NA        | NA        | NA        | <2.10         | 5,240          | NA            | NA        | NA        | NA         | <10,300   | NA        | NA        | <54.8     | NA         | NA        | NA        | NA        | <1,050    | <105       | NA        | NA        | NA        | NA        | NA        | NA |
| MW-120  | (4-5)               | 4/21/2020   | NA  | NA        | <2.170    | 8,570     | NA        | NA        | NA        | <2.40         | 4,410          | NA            | NA        | NA        | NA         | <10,900   | NA        | NA        | <67.3     | NA         | NA        | NA        | NA        | <1,200    | <120       | NA        | NA        | NA        | NA        | NA        | NA |
| MW-121  | (2-3)               | 4/21/2020   | NA  | NA        | 3,120     | 19,700    | NA        | NA        | NA        | <2.13         | 7,240          | NA            | NA        | NA        | NA         | <10,000   | NA        | NA        | <55.9     | NA         | NA        | NA        | NA        | <1,070    | <107       | NA        | NA        | NA        | NA        | NA        | NA |
| MW-121  | (8-10)              | 4/21/2020   | NA  | NA        | <2.200    | 7,690     | NA        | NA        | NA        | <2.20         | 3,040          | NA            | NA        | NA        | NA         | <11,000   | NA        | NA        | <62.3     | NA         | NA        | NA        | NA        | <1,160    | <110       | NA        | NA        | NA        | NA        | NA        | NA |
| MW-122  | (4-5)               | 6/15/2020   | 4,330,000                                   | <1010     | 2,510     | 48,100    | <506      | <8090     | 8,920,000 | <218          | 8,690          | NA            | 1,400     | 6,720     | 5,840,000  | 50,700    | 2,440,000 | 89,200    | 1,110     | <1010      | 4,940     | 238,000   | 282       | <157      | 31,000     | 12,200    | <544      | 237,000   | 14,200    | 48,800    |    |
| MW-123  | (4-5)               | 6/15/2020   | 2,870,000                                   | <929      | 2,530     | 12,700    | <464      | <7430     | 703,000   | <203          | 7,230          | NA            | 1,7       |           |            |           |           |           |           |            |           |           |           |           |            |           |           |           |           |           |    |

Table 1B - Summary of Soil Analytical Results - Polynuclear Aromatic Hydrocarbons  
Former Hayes Lemmerz Site  
W. Eight Mile Road, Ferndale, Oakland County, Michigan

| EGLE Part 201 Generic Cleanup Criteria and Screening Levels, dated January 10, 2018; GSI Criteria Updated June 25, 2018 (ug/kg); VIAP Screening Levels Updated September 4, 2020. |              |             | Acenaphthene                               | Acenaphthylene | Anthracene | Benzo(a)anthracene | Benzo(e)pyrene | Benzo(b)fluoranthene | Benzo(k)fluoranthene | Benzo(ghi)perylene | 4-Bromophenyl phenyl ether | Butylbenzylphthalate | Carbazole | 4-Chloro-3-methylphenol | bis(2-Chloroethoxy)methane | bis(2-Chloroethyl)ether | bis(2-Chloroisopropyl)ether | 2-Chloronaphthalene | 2-Chlorophenol | 4-Chlorophenyl phenyl ether | Chrysene | Dibenz(ah)anthracene |        |
|---|--------------|-------------|--|----------------|------------|--------------------|----------------|----------------------|----------------------|--------------------|----------------------------|----------------------|-----------|-------------------------|----------------------------|-------------------------|-----------------------------|---------------------|----------------|-----------------------------|----------|----------------------|--------|
| CAS Number  | 83-32-9      | 208-96-8    | 120-12-7                                   | 56-55-3        | 50-32-8    | 205-99-2           | 207-08-9       | 191-24-2             | 101-55-3             | 85-68-7            | 86-74-8                    | 59-50-7              | 111-91-1  | 111-44-4                | 108-60-1                   | 91-58-7                 | 95-57-8                     | 7005-72-3           | 218-01-9       | 53-70-3                     |          |                      |        |
| Residential Drinking Water Protection Criteria  | 3.00E+05     | 5,900       | 41,000                                     | NLL            | NLL        | NLL                | NLL            | NLL                  | --                   | 2,200,000          | 9,400                      | 5,800                | --        | 100                     | --                         | 620,000                 | 900                         | --                  | NLL            | NLL                         |          |                      |        |
| Nonresidential Drinking Water Protection Criteria   | 8.80E+05     | 17,000      | 41,000                                     | NLL            | NLL        | NLL                | NLL            | NLL                  | --                   | 5,000,000          | 39,000                     | 16,000               | --        | 170                     | --                         | 1,800,000               | 2,600                       | --                  | NLL            | NLL                         |          |                      |        |
| Groundwater Surface Water Interface Protection Criteria   | 8,700        | ID          | ID   | NLL            | NLL        | NLL                | NLL            | NLL                  | --                   | 120,000            | 1,100                      | 280                  | --        | 100-20                  | --                         | NA                      | 360                         | --                  | NLL            | NLL                         |          |                      |        |
| Direct Contact Criteria   | 1.30E+08     | 5.20E+06    | 7.30E+08                                   | 80,000         | 8,000      | 80,000             | 8,000          | 8,000                | 8,000                | 8,000              | 8,000                      | 8,000                | 8,000     | 8,000                   | 8,000                      | 8,000                   | 8,000                       | 8,000               | 8,000          | 8,000                       | 8,000    | 8,000                | 8,000  |
| Residential Volatilization to Indoor Air Pathway (VIAP)   | 2.00E+05     | --          | 1.30E+07                                   | 1.60E+05       | --         | --                 | --             | --                   | --                   | --                 | --                         | --                   | --        | --                      | 3.4                        | --                      | --                          | 12,000              | --             | --                          | --       | --                   |        |
| Nonresidential Volatilization to Indoor Air Pathway (VIAP)  | 3.60E+06     | --          | 2.20E+08                                   | 1.10E+07       | --         | --                 | --             | --                   | --                   | --                 | --                         | --                   | --        | --                      | 96                         | --                      | --                          | 140,000             | --             | --                          | --       | --                   |        |
| Sample ID   | Sample Depth | Sample Date | Reported in microgram per kilogram (ug/kg) |                |            |                    |                |                      |                      |                    |                            |                      |           |                         |                            |                         |                             |                     |                |                             |          |                      |        |
| MW-104  | (14-15')     | 3/23/2020   | <388                                       | <388           | <388       | <388               | <388           | <388                 | <388                 | <388               | NA                         | NA                   | NA        | NA                      | NA                         | NA                      | NA                          | NA                  | NA             | NA                          | NA       | <388                 | <388   |
| MW-105  | (12-13')     | 3/23/2020   | <389                                       | <389           | <389       | <389               | <389           | <389                 | <389                 | <389               | NA                         | NA                   | NA        | NA                      | NA                         | NA                      | NA                          | NA                  | NA             | NA                          | NA       | <389                 | <389   |
| MW-106  | (5-6')       | 3/25/2020   | <357                                       | <357           | <357       | <357               | <357           | <357                 | <357                 | <357               | NA                         | NA                   | NA        | NA                      | NA                         | NA                      | NA                          | NA                  | NA             | NA                          | NA       | <357                 | <357   |
| MW-107  | (6-7')       | 3/25/2020   | <374                                       | <374           | <374       | <374               | <374           | <374                 | <374                 | <374               | NA                         | NA                   | NA        | NA                      | NA                         | NA                      | NA                          | NA                  | NA             | NA                          | NA       | <374                 | <374   |
| MW-108  | (4-5')       | 3/25/2020   | <349                                       | <349           | <349       | <349               | <349           | <349                 | <349                 | <349               | NA                         | NA                   | NA        | NA                      | NA                         | NA                      | NA                          | NA                  | NA             | NA                          | NA       | <349                 | <349   |
| MW-109  | (4-5')       | 3/25/2020   | <348                                       | <348           | <348       | <348               | <348           | <348                 | <348                 | <348               | NA                         | NA                   | NA        | NA                      | NA                         | NA                      | NA                          | NA                  | NA             | NA                          | NA       | <348                 | <348   |
| MW-110  | (4-5')       | 3/25/2020   | <350                                       | <350           | <350       | <350               | <350           | <350                 | <350                 | <350               | NA                         | NA                   | NA        | NA                      | NA                         | NA                      | NA                          | NA                  | NA             | NA                          | NA       | <350                 | <350   |
| MW-113  | (2-3')       | 3/23/2020   | <368                                       | <368           | <368       | <368               | <368           | <368                 | <368                 | <368               | NA                         | NA                   | NA        | NA                      | NA                         | NA                      | NA                          | NA                  | NA             | NA                          | NA       | <368                 | <368   |
| MW-113  | (7-8')       | 3/24/2020   | <371                                       | <371           | <371       | <371               | <371           | <371                 | <371                 | <371               | NA                         | NA                   | NA        | NA                      | NA                         | NA                      | NA                          | NA                  | NA             | NA                          | NA       | <371                 | <371   |
| MW-114  | (3-4')       | 3/24/2020   | <3,950                                     | <3,950         | 11,100     | 12,600             | 11,600         | 12,700               | 7,880                | 6,950              | NA                         | NA                   | NA        | NA                      | NA                         | NA                      | NA                          | NA                  | NA             | NA                          | NA       | 11,400               | <3,950 |
| MW-114  | (8-9')       | 3/24/2020   | <383                                       | <383           | <383       | <383               | <383           | <383                 | <383                 | <383               | NA                         | NA                   | NA        | NA                      | NA                         | NA                      | NA                          | NA                  | NA             | NA                          | NA       | <383                 | <383   |
| MW-115  | (2-3')       | 3/24/2020   | <387                                       | <387           | <387       | <387               | <387           | <387                 | <387                 | <387               | NA                         | NA                   | NA        | NA                      | NA                         | NA                      | NA                          | NA                  | NA             | NA                          | NA       | <387                 | <387   |
| MW-115  | (7-8')       | 3/24/2020   | <406                                       | <406           | <406       | <406               | <406           | <406                 | <406                 | <406               | NA                         | NA                   | NA        | NA                      | NA                         | NA                      | NA                          | NA                  | NA             | NA                          | NA       | <406                 | <406   |
| MW-116  | (7-8')       | 3/30/2020   | <382                                       | <382           | <382       | <382               | <382           | <382                 | <382                 | <382               | NA                         | NA                   | NA        | NA                      | NA                         | NA                      | NA                          | NA                  | NA             | NA                          | NA       | <382                 | <382   |
| MW-117  | (6-7')       | 3/30/2020   | <375                                       | <375           | <375       | <375               | <375           | <375                 | <375                 | <375               | NA                         | NA                   | NA        | NA                      | NA                         | NA                      | NA                          | NA                  | NA             | NA                          | NA       | <375                 | <375   |
| MW-118  | (10-11')     | 3/30/2020   | <350                                       | <350           | <350       | <350               | <350           | <350                 | <350                 | <350               | NA                         | NA                   | NA        | NA                      | NA                         | NA                      | NA                          | NA                  | NA             | NA                          | NA       | <350                 | <350   |
| MW-119  | (6-7')       | 4/21/2020   | <364                                       | <364           | <364       | <364               | <364           | <364                 | <364                 | <364               | NA                         | NA                   | NA        | NA                      | NA                         | NA                      | NA                          | NA                  | NA             | NA                          | NA       | <364                 | <364   |
| MW-120  | (4-5')       | 4/21/2020   | <401                                       | <401           | <401       | <401               | <401           | <401                 | <401                 | <401               | NA                         | NA                   | NA        | NA                      | NA                         | NA                      | NA                          | NA                  | NA             | NA                          | NA       | <401                 | <401   |
| MW-121  | (9-10')      | 4/21/2020   | <369                                       | <369           | <369       | <369               | <369           | <369                 | <369                 | <369               | NA                         | NA                   | NA        | NA                      | NA                         | NA                      | NA                          | NA                  | NA             | NA                          | NA       | <369                 | <369   |
| MW-122  | (4-5')       | 6/15/2020   | <352                                       | <352           | <352       | <352               | <352           | <352                 | <352                 | <352               | <352                       | <352                 | <352      | <299                    | <352                       | <171                    | <352                        | <352                | <352           | <352                        | <352     | <352                 | <352   |
| MW-123  | (4-5')       | 6/15/2020   | <344                                       | <344           | <344       | <344               | <344           | <344                 | <344                 | <344               | <344                       | <344                 | <344      | <292                    | <344                       | <167                    | <344                        | <344                | <344           | <344                        | <344     | <344                 | <344   |
| MW-124  | (4-5')       | 6/15/2020   | <350                                       | <350           | <350       | <350               | <350           | <350                 | <350                 | <350               | <350                       | <350                 | <350      | <297                    | <350                       | <170                    | <350                        | <350                | <350           | <350                        | <350     | <350                 | <350   |
| MW-125  | (4-5')       | 6/16/2020   | <347                                       | <347           | 549        | 2,190              | 1,860          | 2,650                | 1,040                | 1,000              | <347                       | <347                 | <347      | <294                    | <347                       | <168                    | <347                        | <347                | <347           | <347                        | <347     | <347                 | <347   |
| MW-126  | (4-5')       | 6/15/2020   | <344                                       | <344           | <344       | <344               | <344           | <344                 | 461                  | <344               | <344                       | <344                 | <344      | <292                    | <344                       | <167                    | <344                        | <344                | <344           | <344                        | <344     | <344                 | <344   |
| MW-126  | (7.5-8.5')   | 6/15/2020   | <333                                       | <333           | <333       | <333               | <333           | <333                 | <333                 | <333               | <333                       | <333                 | <333      | <282                    | <333                       | <161                    | <333                        | <333                | <333           | <333                        | <333     | <333                 | <333   |
| MW-127  | (6-7')       | 6/15/2020   | <366                                       | <366           | <366       | <366               | <366           | <366                 | <366                 | <366               | <366                       | <366                 | <366      | <366                    | <366                       | <177                    | <366                        | <366                | <366           | <366                        | <366     | <366                 | <366   |
| MW-127  | (10-11')     | 6/15/2020   | <8880                                      | <8880          | 9,250      | <8880              | <8880          | <8880                | <8880                | <8880              | <8880                      | <8880                | <8880     | <7540                   | <8880                      | <4310                   | <8880                       | <8880               | <8880          | <8880                       | <8880    | 11,600               | <8880  |
| MW-128  | (4-5')       | 6/15/2020   | <427                                       | <427           | 841        | 1,510              | 765            | 1,110                | 545                  | 496                | <427                       | <427                 | 620       | <363                    | <427                       | <207                    | <427                        | <427                | <427           | <427                        | <427     | 1,280                | <427   |
| MW-128  | (8-9')       | 6/15/2020   | <347                                       | <347           | <347       | <347               | <347           | <347                 | <347                 | <347               | <347                       | <347                 | <347      | <295                    | <347                       | <168                    | <347                        | <347                | <347           | <347                        | <347     | <347                 | <347   |
| MW-129  | (3-4')       | 6/15/2020   | <1630                                      | <1630          | <1630      | 1,650              | <1630          | 2,220                | <1630                | <1630              | <1630                      | 90,700               | <1630     | <1380                   | <1630                      | <790                    | <1630                       | <1630               | <1630          | <1630                       | <1630    | <1630                | <1630  |
| MW-130  | (4-5')       | 6/15/2020   | <348                                       | <348           | <348       | <348               | <348           | <348                 | <348                 | <348               | <348                       | <348                 | <348      | <295                    | <348                       | <169                    | <348                        | <348                | <348           | <348                        | <348     | <348                 | <348   |
| MW-131  | (2-3')       | 6/15/2020   | <422                                       | <422           | <422       | <422               | <422           | <422                 | <422                 | <422               | <422                       | <422                 | <422      | <358                    | <422                       | <205                    | <422                        | <422                | <422           | <422                        | <422     | <422                 | <422   |
| MW-132  | (5.5-6.5')   | 8/12/2020   | <369                                       | <369           | 485        | 1,490              | 1,370          | 1,750                | 791                  | 851                | <369                       | 42,200               | <369      | <313                    | <369                       | <179                    | <369                        | <369                | <369           | <369                        | <369     | 1,480                | <369   |
| MW-133  | (3-4')       | 8/12/2020   | 5,470                                      | <1790          | 7,580      | 21,100             | 20,400         | 27,200               | 10,600               | 13,300             | <1790                      | <1790                | 5,010     | <1520                   | <1790                      | <869                    | <869                        | <1790               | <1790          | <1790                       | <1790    | 21,800               | 3,620  |
| MW-133  | (10-11')     | 8/12/2020   | <3940                                      | <3940          | 5,700      | 16,100             | 14,500         | 20,500               | 6,710                | 8,410              | <3940                      | 43,500               | <3940     | <3340                   | <3940                      | <1910                   | <3940                       | <3940               | <3940          | <3940                       | <3940    | 15,500               | <3940  |

- Notes:
- 540 Analyte detected above laboratory method detection limits (MDLs).
  - <5.0 Analyte "Not-Detected" above MDLs.
  - 4,600 Analyte exceeds Residential Drinking Water Protection Criteria.
  - 4,600 Analyte exceeds Nonresidential Drinking Water Protection Criteria.
  - 4,600 Analyte exceeds Groundwater Surface Water Interface Protection Criteria.
  - 37,000 Analyte exceeds Direct Contact Criteria.
  - 22 Analyte exceeds Residential Volatilization to Indoor Air Pathway (VIAP) Screening Levels.
  - 390 Analyte exceeds Nonresidential Volatilization to Indoor Air Pathway (VIAP) Screening Levels.
  - No criteria developed.
  - NLV Not Likely to Volatilize
  - NA Not analyzed

Analyses were conducted at Pace Analytical (PACE) in Indianapolis, Indiana.  
 Polynuclear aromatic hydrocarbons (PAHs) analyzed by EPA Method 8270 SIM.  
 EGLE = Michigan Department of Environment, Great Lakes, and Energy.  
 VIAP = Volatilization to Indoor Air Pathway  
 Notes in parentheses and standard abbreviations from Part 201 Rules 299.1 through 299.50, dated June 25, 2018.





Table 1B - Summary of Soil Analytical Results - Polynuclear Aromatic Hydrocarbons  
Former Hayes Lemmerz Site  
W. Eight Mile Road, Ferndale, Oakland County, Michigan

| EGLE Part 201 Generic Cleanup Criteria and Screening Levels, dated January 10, 2018; GSI Criteria Updated June 25, 2018 (ug/kg); VIAP Screening Levels Updated September 4, 2020. | Isophorone          | 2-Methyl naphthalene | 2-Methyl phenol(o-Cresol)                  | 3&4-Methyl phenol(m&p Cresol) | Naphthalene | 2-Nitroaniline | 3-Nitroaniline | 4-Nitroaniline | Nitrobenzene | 2-Nitrophenol | 4-Nitrophenol | N-Nitrosodimethylamine | N-Nitrosodipropylamine | N-Nitrosodiphenylamine | Pentachlorophenol | Phenanthrene | Phenol   | Pyrene   | 1,2,4-Trichlorobenzene | 2,4,5-Trichlorophenol | 2,4,6-Trichlorophenol |        |       |       |
|---|---------------------|----------------------|--|-------------------------------|-------------|----------------|----------------|----------------|--------------|---------------|---------------|------------------------|------------------------|------------------------|-------------------|--------------|----------|----------|------------------------|-----------------------|-----------------------|--------|-------|-------|
| CAS Number  | 78-99-1             | 91-57-6              | 95-48-7                                    | 106-44-5                      | 91-20-3     | 88-74-4        | 99-09-2        | 100-01-6       | 98-95-3      | 88-75-5       | 100-02-7      | 62-75-9                | 62-16-47               | 86-30-6                | 87-86-5           | 85-01-8      | 108-95-2 | 129-00-0 | 120-82-1               | 95-95-4               | 88-06-2               |        |       |       |
| Residential Drinking Water Protection Criteria  | 15,000              | 57,000               | 7,400                                      | 7,400                         | 35,000      | --             | --             | --             | 300; 68      | 400           | --            | --                     | 330; 100               | 5,400                  | 22                | 56,000       | 88,000   | 480,000  | 4,200                  | 39,000                | 2,400                 |        |       |       |
| Nonresidential Drinking Water Protection Criteria (Groundwater Surface Water Interface Protection)  | 62,000              | 170,000              | 20,000                                     | 20,000                        | 100,000     | --             | --             | --             | 300; 190     | 1,200         | --            | --                     | 330; 100               | 22,000                 | 22                | 160,000      | 260,000  | 480,000  | 4,200                  | 110,000               | 9,400                 |        |       |       |
| Criteria  | 26,000              | 4,200                | 1,000; 600                                 | 1,000; 600                    | 730         | --             | --             | --             | 3,600        | ID            | --            | --                     | NA                     | NA                     | (G,X)             | 2,100        | 9,000    | ID       | 5,900                  | NA                    | 330; 100              |        |       |       |
| Direct Contact Criteria   | 22,000,000          | 8.10E+06             | 3.60E+07                                   | 3.60E+07                      | 1.60E+07    | --             | --             | --             | 340,000      | 2,000,000     | --            | --                     | 5,400                  | 7,800,000              | 3.20E+05          | 5.20E+08     | 2.30E+08 | 8.40E+07 | 5.80E+06               | 7.30E+07              | 3.30E+06              |        |       |       |
| Residential Volatilization to Indoor Air Pathway (VIAP)   | --                  | 1,700                | --   | --                            | 67          | --             | --             | --             | 170          | --            | --            | --                     | --                     | --                     | --                | 1,700        | --       | 2.50E+07 | 53                     | --                    | --                    |        |       |       |
| Nonresidential Volatilization to Indoor Air Pathway (VIAP)  | --                  | 30,000               | --   | --                            | 1,900       | --             | --             | --             | 4,800        | --            | --            | --                     | --                     | --                     | --                | 29,000       | --       | 4.40E+08 | 930                    | --                    | --                    |        |       |       |
| Sample ID   | Sample Depth (feet) | Sample Date          | Reported in microgram per kilogram (ug/kg) |                               |             |                |                |                |              |               |               |                        |                        |                        |                   |              |          |          |                        |                       |                       |        |       |       |
| MW-104  | (14-15')            | 3/23/2020            | NA   | <388                          | NA          | NA             | <388           | NA             | NA           | NA            | NA            | NA                     | NA                     | NA                     | NA                | NA           | NA       | <388     | NA                     | <388                  | NA                    | NA     | NA    |       |
| MW-105  | (12-13')            | 3/23/2020            | NA   | <389                          | NA          | NA             | <389           | NA             | NA           | NA            | NA            | NA                     | NA                     | NA                     | NA                | NA           | NA       | <389     | NA                     | <389                  | NA                    | NA     | NA    |       |
| MW-106  | (5-6')              | 3/25/2020            | NA   | <357                          | NA          | NA             | <357           | NA             | NA           | NA            | NA            | NA                     | NA                     | NA                     | NA                | NA           | NA       | <357     | NA                     | <357                  | NA                    | NA     | NA    |       |
| MW-107  | (6-7')              | 3/25/2020            | NA   | <374                          | NA          | NA             | <374           | NA             | NA           | NA            | NA            | NA                     | NA                     | NA                     | NA                | NA           | NA       | <374     | NA                     | <374                  | NA                    | NA     | NA    |       |
| MW-108  | (4-5')              | 3/25/2020            | NA   | <349                          | NA          | NA             | <349           | NA             | NA           | NA            | NA            | NA                     | NA                     | NA                     | NA                | NA           | NA       | <349     | NA                     | <349                  | NA                    | NA     | NA    |       |
| MW-109  | (4-5')              | 3/25/2020            | NA   | <348                          | NA          | NA             | <348           | NA             | NA           | NA            | NA            | NA                     | NA                     | NA                     | NA                | NA           | NA       | <348     | NA                     | <348                  | NA                    | NA     | NA    |       |
| MW-110  | (4-5')              | 3/25/2020            | NA   | <350                          | NA          | NA             | <350           | NA             | NA           | NA            | NA            | NA                     | NA                     | NA                     | NA                | NA           | NA       | <350     | NA                     | <350                  | NA                    | NA     | NA    |       |
| MW-113  | (2-3')              | 3/23/2020            | NA   | <368                          | NA          | NA             | <368           | NA             | NA           | NA            | NA            | NA                     | NA                     | NA                     | NA                | NA           | NA       | <368     | NA                     | <368                  | NA                    | NA     | NA    |       |
| MW-113  | (7-8')              | 3/24/2020            | NA   | <371                          | NA          | NA             | <371           | NA             | NA           | NA            | NA            | NA                     | NA                     | NA                     | NA                | NA           | NA       | <371     | NA                     | <371                  | NA                    | NA     | NA    |       |
| MW-114  | (3-4')              | 3/24/2020            | NA   | <3,950                        | NA          | NA             | <3,950         | NA             | NA           | NA            | NA            | NA                     | NA                     | NA                     | NA                | NA           | NA       | 33,500   | NA                     | 24,900                | NA                    | NA     | NA    |       |
| MW-114  | (8-9')              | 3/24/2020            | NA   | <383                          | NA          | NA             | <383           | NA             | NA           | NA            | NA            | NA                     | NA                     | NA                     | NA                | NA           | NA       | 561      | NA                     | 528                   | NA                    | NA     | NA    |       |
| MW-115  | (2-3')              | 3/24/2020            | NA   | <387                          | NA          | NA             | <387           | NA             | NA           | NA            | NA            | NA                     | NA                     | NA                     | NA                | NA           | NA       | <387     | NA                     | <387                  | NA                    | NA     | NA    |       |
| MW-115  | (7-8')              | 3/24/2020            | NA   | <406                          | NA          | NA             | <406           | NA             | NA           | NA            | NA            | NA                     | NA                     | NA                     | NA                | NA           | NA       | <406     | NA                     | <406                  | NA                    | NA     | NA    |       |
| MW-116  | (7-8')              | 3/30/2020            | NA   | <382                          | NA          | NA             | <382           | NA             | NA           | NA            | NA            | NA                     | NA                     | NA                     | NA                | NA           | NA       | <382     | NA                     | <382                  | NA                    | NA     | NA    |       |
| MW-117  | (6-7')              | 3/30/2020            | NA   | <375                          | NA          | NA             | <375           | NA             | NA           | NA            | NA            | NA                     | NA                     | NA                     | NA                | NA           | NA       | <375     | NA                     | <375                  | NA                    | NA     | NA    |       |
| MW-118  | (10-11')            | 3/30/2020            | NA   | <350                          | NA          | NA             | <350           | NA             | NA           | NA            | NA            | NA                     | NA                     | NA                     | NA                | NA           | NA       | <350     | NA                     | <350                  | NA                    | NA     | NA    |       |
| MW-119  | (6-7')              | 4/21/2020            | NA   | <364                          | NA          | NA             | <364           | NA             | NA           | NA            | NA            | NA                     | NA                     | NA                     | NA                | NA           | NA       | <364     | NA                     | <364                  | NA                    | NA     | NA    |       |
| MW-120  | (4-5')              | 4/21/2020            | NA   | <401                          | NA          | NA             | <401           | NA             | NA           | NA            | NA            | NA                     | NA                     | NA                     | NA                | NA           | NA       | <401     | NA                     | <401                  | NA                    | NA     | NA    |       |
| MW-121  | (9-10')             | 4/21/2020            | NA   | <369                          | NA          | NA             | <369           | NA             | NA           | NA            | NA            | NA                     | NA                     | NA                     | NA                | NA           | NA       | <369     | NA                     | <369                  | NA                    | NA     | NA    |       |
| MW-122  | (4-5')              | 6/15/2020            | <352                                       | <352                          | <1070       | <1070          | <352           | <352           | <352         | <352          | <352          | <352                   | <352                   | <352                   | <1170             | <352         | <352     | <352     | <1570                  | <352                  | 586                   | <352   | <352  | <352  |
| MW-123  | (4-5')              | 6/15/2020            | <344                                       | <344                          | <1040       | <1040          | <344           | <344           | <344         | <344          | <344          | <344                   | <344                   | <344                   | <1670             | <344         | <344     | <344     | <1530                  | <344                  | <344                  | <344   | <344  | <344  |
| MW-124  | (4-5')              | 6/15/2020            | <350                                       | <350                          | <1060       | <1060          | <350           | <350           | <350         | <350          | <350          | <350                   | <350                   | <350                   | <1700             | <350         | <350     | <350     | <1560                  | <350                  | <350                  | <350   | <350  | <350  |
| MW-125  | (4-5')              | 6/16/2020            | <347                                       | <347                          | <1050       | <1050          | <347           | <347           | <347         | <347          | <347          | <347                   | <347                   | <347                   | <1680             | <347         | <347     | <347     | <1540                  | 2,250                 | <347                  | 3,800  | <347  | <347  |
| MW-126  | (4-5')              | 6/15/2020            | <344                                       | <344                          | <1040       | <1040          | <344           | <344           | <344         | <344          | <344          | <344                   | <344                   | <344                   | <1670             | <344         | <344     | <344     | <1530                  | <344                  | <344                  | 436    | <344  | <344  |
| MW-126  | (7.5-8.5')          | 6/15/2020            | <333                                       | <333                          | <1010       | <1010          | <333           | <333           | <333         | <333          | <333          | <333                   | <333                   | <333                   | <1610             | <333         | <333     | <333     | <1480                  | <333                  | <333                  | <333   | <333  | <333  |
| MW-127  | (6-7')              | 6/15/2020            | <366                                       | <366                          | <1110       | <1110          | <366           | <366           | <366         | <366          | <366          | <366                   | <366                   | <366                   | <1770             | <366         | <366     | <366     | <1630                  | <366                  | <366                  | <366   | <366  | <366  |
| MW-127  | (10-11')            | 6/15/2020            | <8880                                      | 61,800                        | <26900      | <26900         | <8880          | <8880          | <8880        | <8880         | <8880         | <8880                  | <8880                  | <43100                 | <8880             | <8880        | <8880    | <8880    | <39600                 | 68,700                | <8880                 | 23,800 | <8880 | <8880 |
| MW-128  | (4-5')              | 6/15/2020            | <427                                       | <427                          | <1290       | <1290          | 591            | <427           | <427         | <427          | <427          | <427                   | <427                   | <427                   | <2070             | <427         | <427     | <427     | <1900                  | 6,760                 | <427                  | 4,370  | <427  | <427  |
| MW-128  | (8-9')              | 6/15/2020            | <347                                       | <347                          | <1050       | <1050          | <347           | <347           | <347         | <347          | <347          | <347                   | <347                   | <347                   | <1680             | <347         | <347     | <347     | <1550                  | <347                  | <347                  | <347   | <347  | <347  |
| MW-129  | (3-4')              | 6/15/2020            | <1630                                      | <1630                         | <4940       | <4940          | <1630          | <1630          | <1630        | <1630         | <1630         | <1630                  | <1630                  | <1630                  | <7900             | <1630        | <1630    | <1630    | <7260                  | 1,870                 | <1630                 | 2,620  | <1630 | <1630 |
| MW-130  | (4-5')              | 6/15/2020            | <348                                       | <348                          | <1050       | <1050          | <348           | <348           | <348         | <348          | <348          | <348                   | <348                   | <348                   | <1690             | <348         | <348     | <348     | <1550                  | <348                  | <348                  | <348   | <348  | <348  |
| MW-131  | (2-3')              | 6/15/2020            | <422                                       | <422                          | <1280       | <1280          | <422           | <422           | <422         | <422          | <422          | <422                   | <422                   | <422                   | <2050             | <422         | <422     | <422     | <1880                  | <422                  | <422                  | <422   | <422  | <422  |
| MW-132  | (5.5-6.5')          | 8/12/2020            | <369                                       | <369                          | <1120       | <1120          | <369           | <369           | <369         | <369          | <369          | <369                   | <369                   | <369                   | <1790             | <369         | <369     | <369     | <1650                  | 2,130                 | <369                  | 3,040  | <369  | <369  |
| MW-133  | (3-4')              | 8/12/2020            | <1790                                      | <1790                         | <5430       | <5430          | 1,960          | <1790          | <1790        | <1790         | <1790         | <1790                  | <1790                  | <1790                  | <8690             | <1790        | <1790    | <1790    | <7980                  | 38,300                | <1790                 | 46,900 | <1790 | <1790 |
| MW-133  | (10-11')            | 8/12/2020            | <3940                                      | <3940                         | <11900      | <11900         | <3940          | <3940          | <3940        | <3940         | <3940         | <3940                  | <3940                  | <3940                  | <17500            | <3940        | <3940    | <3940    | <17500                 | 22,100                | <3940                 | 25,600 | <3940 | <3940 |

Notes:

- 540 Analyte detected above laboratory method detection limits (MDLs).
- <5.0 Analyte "Not-Detected" above MDLs.
- 4,600 Analyte exceeds Residential Drinking Water Protection Criteria.
- 4,600 Analyte exceeds Nonresidential Drinking Water Protection Criteria.
- 4,600 Analyte exceeds Groundwater Surface Water Interface Protection Criteria.
- 37,000 Analyte exceeds Direct Contact Criteria.
- 22 Analyte exceeds Residential Volatilization to Indoor Air Pathway (VIAP) Screening Levels.
- 390 Analyte exceeds Nonresidential Volatilization to Indoor Air Pathway (VIAP) Screening Levels.
- No criteria developed.
- NLV Not Likely to Volatilize
- NA Not analyzed

Analyses were conducted at Pace Analytical (PACE) in Indianapolis, Indiana.  
Polynuclear aromatic hydrocarbons (PAHs) analyzed by EPA Method 8270 SIM.  
EGLE = Michigan Department of Environment, Great Lakes, and Energy.  
VIAP = Volatilization to Indoor Air Pathway  
Notes in parentheses and standard abbreviations from Part 201 Rules 299.1 through 299.50, dated June 25, 2018.



Table 1D - Summary of Soil Analytical Results - Metals

Former Hayes Lemmerz Site

W. Eight Mile Road, Ferndale, Oakland County, Michigan

| EGLE Part 201 Generic Cleanup Criteria and Screening Levels, dated December 30, 2013; GSI Protection Criteria Updated June 25, 2018 (ug/kg) | PCB-1016 (Aroclor 1016) | PCB-1221 (Aroclor 1221) | PCB-1232 (Aroclor 1232)                     | PCB-1242 (Aroclor 1242) | PCB-1248 (Aroclor 1248) | PCB-1254 (Aroclor 1254) | PCB-1260 (Aroclor 1260) | PCB-1262 (Aroclor 1262) | PCB-1268 (Aroclor 1268) |      |      |
|---|-------------------------|-------------------------|---|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|------|------|
| CAS Number  | 12674-11-2              | 11104-28-2              | 11141-16-5                                  | 53469-21-9              | 12672-29-6              | 11097-69-1              | 11096-82-5              | 37324-23-5              | 11100-14-4              |      |      |
| Residential Drinking Water Criteria   | NLL                     | NLL                     | NLL   | NLL                     | NLL                     | NLL                     | NLL                     | NLL                     | NLL                     |      |      |
| Nonresidential Drinking Water Criteria  | NLL                     | NLL                     | NLL   | NLL                     | NLL                     | NLL                     | NLL                     | NLL                     | NLL                     |      |      |
| Groundwater Surface Water Interface Criteria  | NLL                     | NLL                     | NLL   | NLL                     | NLL                     | NLL                     | NLL                     | NLL                     | NLL                     |      |      |
| Residential Direct Contact Criteria   | <b>4,000</b>            | <b>4,000</b>            | <b>4,000</b>                                | <b>4,000</b>            | <b>4,000</b>            | <b>4,000</b>            | <b>4,000</b>            | <b>4,000</b>            | <b>4,000</b>            |      |      |
| Nonresidential Direct Contact Criteria  | <b>16,000</b>           | <b>16,000</b>           | <b>16,000</b>                               | <b>16,000</b>           | <b>16,000</b>           | <b>16,000</b>           | <b>16,000</b>           | <b>16,000</b>           | <b>16,000</b>           |      |      |
| Volatilization to Indoor Air Pathway (VIAP)   | <b>16,000,000</b>       | <b>16,000,000</b>       | <b>16,000,000</b>                           | <b>16,000,000</b>       | <b>16,000,000</b>       | <b>16,000,000</b>       | <b>16,000,000</b>       | <b>16,000,000</b>       | <b>16,000,000</b>       |      |      |
| Sample ID   | Sample Depth (feet)     | Sample Date             | Reported in micrograms per kilogram (ug/kg) |                         |                         |                         |                         |                         |                         |      |      |
| MW-104  | (14-15')                | 3/23/2020               | NA  | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA   | NA   |
| MW-105  | (12-13')                | 3/23/2020               | NA  | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA   | NA   |
| MW-106  | (5-6')                  | 3/25/2020               | NA  | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA   | NA   |
| MW-107  | (6-7')                  | 3/25/2020               | NA  | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA   | NA   |
| MW-108  | (4-5')                  | 3/25/2020               | NA  | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA   | NA   |
| MW-109  | (4-5')                  | 3/25/2020               | NA  | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA   | NA   |
| MW-110  | (4-5')                  | 3/25/2020               | NA  | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA   | NA   |
| MW-113  | (2-3')                  | 3/23/2020               | NA  | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA   | NA   |
| MW-113  | (7-8')                  | 3/24/2020               | NA  | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA   | NA   |
| MW-114  | (3-4')                  | 3/24/2020               | NA  | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA   | NA   |
| MW-114  | (8-9')                  | 3/24/2020               | NA  | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA   | NA   |
| MW-115  | (2-3')                  | 3/24/2020               | NA  | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA   | NA   |
| MW-115  | (7-8')                  | 3/24/2020               | NA  | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA   | NA   |
| MW-116  | (7-8')                  | 3/30/2020               | NA  | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA   | NA   |
| MW-117  | (6-7')                  | 3/30/2020               | NA  | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA   | NA   |
| MW-118  | (10-11')                | 3/30/2020               | NA  | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA   | NA   |
| MW-119  | (6-7')                  | 4/21/2020               | NA  | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA   | NA   |
| MW-120  | (4-5')                  | 4/21/2020               | NA  | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA   | NA   |
| MW-121  | (9-10')                 | 4/21/2020               | NA  | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA   | NA   |
| MW-122  | (4-5')                  | 6/15/2020               | NA  | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA   | NA   |
| MW-123  | (4-5')                  | 6/15/2020               | <350  | <350                    | <350                    | <350                    | <350                    | <350                    | <350                    | <350 | <350 |
| MW-124  | (4-5')                  | 6/15/2020               | NA  | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA   | NA   |
| MW-125  | (4-5')                  | 6/16/2020               | <350  | <350                    | <350                    | <350                    | <350                    | <350                    | <350                    | <350 | <350 |
| MW-126  | (4-5')                  | 6/15/2020               | NA  | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA   | NA   |
| MW-126  | (7.5-8.5')              | 6/15/2020               | NA  | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA   | NA   |
| MW-127  | (6-7')                  | 6/15/2020               | NA  | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA   | NA   |
| MW-127  | (10-11')                | 6/15/2020               | <358  | <358                    | <358                    | <358                    | <358                    | <358                    | <358                    | <358 | <358 |
| MW-128  | (4-5')                  | 6/15/2020               | <383  | <383                    | <383                    | <383                    | <383                    | <383                    | <383                    | <383 | <383 |
| MW-128  | (8-9')                  | 6/15/2020               | NA  | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA   | NA   |
| MW-129  | (3-4')                  | 6/15/2020               | NA  | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA   | NA   |
| MW-130  | (4-5')                  | 6/15/2020               | <349  | <349                    | <349                    | <349                    | <349                    | <349                    | <349                    | <349 | <349 |
| MW-131  | (2-3')                  | 6/15/2020               | NA  | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA   | NA   |
| MW-132  | (5.5-6.5')              | 8/12/2020               | <359  | <359                    | <359                    | <359                    | <359                    | <359                    | <359                    | <359 | <359 |
| MW-133  | (3-4')                  | 8/12/2020               | NA  | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA   | NA   |
| MW-133  | (10-11')                | 8/12/2020               | NA  | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA   | NA   |

|                   |   |
|-------------------|---|
| 540               | Analyte detected above laboratory method detection limits (MDLs).       |
| <5.0              | Analyte "Not-Detected" above MDLs.                                      |
| NLL               | Analyte not likely to leach to groundwater (residential)                |
| NLL               | Analyte not likely to leach to groundwater (non-residential)            |
| 4,000             | Analyte exceeds groundwater surface water interface protection criteria |
| <b>4,000</b>      | Analyte exceeds residential direct contact criteria                     |
| <b>4,000</b>      | Analyte exceeds nonresidential direct contact criteria                  |
| <b>16,000,000</b> | Analyte exceeds volatilization to indoor air pathway (VIAP)             |
| NA                | Not analyzed  |

Analyses were conducted at Pace Analytical (PACE) in Indianapolis, Indiana.  
 EGLE= Michigan Department of Environment, Great Lakes, and Energy.  
 Notes in parentheses and standard abbreviations from Part 201 Rules 299.1 through 299.50, dated June 25, 2018.

Table 2A - Summary of Groundwater Analytical Results - Volatile Organic Compounds  
Former Hayes Lemmerz Site  
W. Eight Mile Road, Ferndale, Oakland County, Michigan

| EGLE Part 201 Generic Cleanup Criteria and Screening Levels, dated January 10, 2018; GSI Criteria Updated June 25, 2018 (ug/L); VIAP Screening Levels Updated September 4, 2020. |                        |             | Acetone                                 | Acrylonitrile | tert-Butylmethyl ether | Benzene  | Bromobenzene | Bromochloromethane | Bromodichloromethane | Bromoform | Bromomethane | p-Dinitrobenzene (M/K) | tert-Butyl Alcohol | n-Butylbenzene | sec-Butylbenzene | tert-Butylbenzene | Carbon disulfide | Carbon tetrachloride | Chlorobenzene | Chloroethane | Chloroform | Chloromethane | Cyclohexane | 1,2-Dibromo-3-chloropropane | Dibromochloromethane | 1,2-Dibromomethane (DOB) | Dibromomethane |       |      |
|--|------------------------|-------------|---|---------------|------------------------|----------|--------------|--------------------|----------------------|-----------|--------------|------------------------|--------------------|----------------|------------------|-------------------|------------------|----------------------|---------------|--------------|------------|---------------|-------------|-----------------------------|----------------------|--------------------------|----------------|-------|------|
| CAS Number   |                        |             | 67-64-1                                 | 107-13-1      | 994-05-8               | 71-43-2  | 108-86-1     | NA                 | 74-97-5              | 75-25-2   | 74-83-9      | 78-93-3                | 75-65-0            | 104-51-8       | 135-98-8         | 98-06-6           | 75-15-0          | 56-23-5              | 108-90-7      | 75-00-3      | 67-66-3    | 74-87-3       | 108-94-1    | 13440-24-9                  | 124-48-1             | 95-50-1                  | 74-95-3        |       |      |
| Residential Drinking Water Criteria  |                        |             | 730                                     | 2.6           | 190                    | 5        | 18           | -                  | 80                   | 80        | 10           | 13,000                 | 3,900              | 80             | 80               | 80                | 800              | 5                    | 100           | 430          | 80         | 260           | -           | -                           | 80                   | 600                      | 80             |       |      |
| Nonresidential Drinking Water Criteria   |                        |             | 2,100                                   | 11            | 190                    | 5        | 50           | -                  | 80                   | 80        | 29           | 38,000                 | 11,000             | 230            | 230              | 230               | 2,300            | 5                    | 100           | 1,700        | 80         | 1,100         | -           | -                           | 80                   | 600                      | 230            |       |      |
| Groundwater Surface Water Interface Criteria   |                        |             | 1,700                                   | 2.0; 1.2      | -                      | 200      | -            | -                  | ID                   | ID        | 5.0; 4.2     | 2,200                  | -                  | ID             | ID               | ID                | ID               | 38                   | 25            | 1,100        | 350        | ID            | -           | -                           | ID                   | 13                       | -              |       |      |
| Residential Volatilization to Indoor Air Pathway (VIAP)  |                        |             | 50,000                                  | 4.6           | 82                     | 1.0      | 62           | -                  | 1.2                  | 89        | 2.1          | 2,600                  | 17,000             | 44             | 270              | 0.077             | 92               | 0.41                 | 33            | 620          | 0.49       | 15            | 290         | -                           | 0.78                 | 0.13                     | 8.8            |       |      |
| Nonresidential Volatilization to Indoor Air Pathway (VIAP)   |                        |             | 4,000,000                               | 330           | 3,500                  | 66       | 2,700        | -                  | 73                   | 6,200     | 80           | 4.30E+06               | 7.50E+05           | 1,600          | 12,000           | 2.6               | 3,100            | 18                   | 1,400         | 22,000       | 32         | 560           | 8,100       | -                           | 130                  | 8.9                      | 380            |       |      |
| Water Solubility   |                        |             | 1.00E+09                                | 7.50E+07      | -                      | 1.75E+06 | -            | -                  | 4.74E+06             | 3.10E+06  | 1.45E+07     | 2.40E+08               | 1.00E+09           | -              | -                | -                 | 1.19E+06         | 7.93E+05             | 4.72E+05      | 5.74E+06     | 7.92E+06   | 6.34E+06      | -           | -                           | 2.60E+06             | 1.56E+05                 | -              |       |      |
| Well ID  | Screen Interval (feet) | Sample Date | Reported in micrograms per liter (ug/L) |               |                        |          |              |                    |                      |           |              |                        |                    |                |                  |                   |                  |                      |               |              |            |               |             |                             |                      |                          |                |       |      |
| MW-101   | 7.5' - 12.5'           | 4/8/2020    | <50.0                                   | <2.0          | <5.0                   | <1.0     | <1.0         | <0.22              | <1.0                 | <1.0      | <5.0         | <25.0                  | <50.0              | <1.0           | <1.0             | <1.0              | <5.0             | <1.0                 | <1.0          | <5.0         | <1.0       | <5.0          | <1.0        | <5.0                        | <1.0                 | <0.25                    | <5.0           | <0.23 | <5.0 |
| MW-102   | 8' - 13'               | 4/8/2020    | <50.0                                   | <2.0          | <5.0                   | <1.0     | <1.0         | <0.59              | <1.0                 | <1.0      | <5.0         | <25.0                  | <50.0              | <1.0           | <1.0             | <1.0              | <5.0             | <1.0                 | <1.0          | <5.0         | <1.0       | <5.0          | <1.0        | <5.0                        | <1.0                 | <0.25                    | <5.0           | <0.23 | <5.0 |
| MW-103   | 8' - 13'               | 4/8/2020    | <50.0                                   | <2.0          | <5.0                   | <1.0     | <1.0         | <0.59              | <1.0                 | <1.0      | <5.0         | <25.0                  | <50.0              | <1.0           | <1.0             | <1.0              | <5.0             | <1.0                 | <1.0          | <5.0         | <1.0       | <5.0          | <1.0        | <5.0                        | <1.0                 | <0.25                    | <5.0           | <0.23 | <5.0 |
| MW-104   | 15' - 20'              | 4/8/2020    | <50.0                                   | <2.0          | <5.0                   | <1.0     | <1.0         | <0.59              | <1.0                 | <1.0      | <5.0         | <25.0                  | <50.0              | <1.0           | <1.0             | <1.0              | <5.0             | <1.0                 | <1.0          | <5.0         | <1.0       | <5.0          | <1.0        | <5.0                        | <1.0                 | <0.25                    | <5.0           | <0.23 | <5.0 |
| MW-105   | 9' - 14'               | 4/8/2020    | <50.0                                   | <2.0          | <5.0                   | <1.0     | <1.0         | <0.59              | <1.0                 | <1.0      | <5.0         | <25.0                  | <50.0              | <1.0           | <1.0             | <1.0              | <5.0             | <1.0                 | <1.0          | <5.0         | <1.0       | <5.0          | <1.0        | <5.0                        | <1.0                 | <0.25                    | <5.0           | <0.23 | <5.0 |
| MW-106   | 7.5' - 12.5'           | 4/8/2020    | <50.0                                   | <2.0          | <5.0                   | <1.0     | <1.0         | <0.59              | <1.0                 | <1.0      | <5.0         | <25.0                  | <50.0              | <1.0           | <1.0             | <1.0              | <5.0             | <1.0                 | <1.0          | <5.0         | <1.0       | <5.0          | <1.0        | <5.0                        | <1.0                 | <0.25                    | <5.0           | <0.23 | <5.0 |
| MW-107   | 7' - 12'               | 4/8/2020    | <50.0                                   | <2.0          | <5.0                   | <1.0     | <1.0         | <0.59              | <1.0                 | <1.0      | <5.0         | <25.0                  | <50.0              | <1.0           | <1.0             | <1.0              | <5.0             | <1.0                 | <1.0          | <5.0         | <1.0       | <5.0          | <1.0        | <5.0                        | <1.0                 | <0.25                    | <5.0           | <0.23 | <5.0 |
| MW-108   | 5' - 10'               | 4/8/2020    | <50.0                                   | <2.0          | <5.0                   | <1.0     | <1.0         | <0.59              | <1.0                 | <1.0      | <5.0         | <25.0                  | <50.0              | <1.0           | <1.0             | <1.0              | <5.0             | <1.0                 | <1.0          | <5.0         | <1.0       | <5.0          | <1.0        | <5.0                        | <1.0                 | <0.25                    | <5.0           | <0.23 | <5.0 |
| MW-109   | 5' - 10'               | 4/8/2020    | <50.0                                   | <2.0          | <5.0                   | <1.0     | <1.0         | <0.22              | <1.0                 | <1.0      | <5.0         | <25.0                  | <50.0              | <1.0           | <1.0             | <1.0              | <5.0             | <1.0                 | <1.0          | <5.0         | <1.0       | <5.0          | <1.0        | <5.0                        | <1.0                 | <0.25                    | <5.0           | <0.23 | <5.0 |
| MW-110   | 5' - 10'               | 4/9/2020    | <50.0                                   | <2.0          | <5.0                   | <1.0     | <1.0         | <0.22              | <1.0                 | <1.0      | <5.0         | <25.0                  | <50.0              | <1.0           | <1.0             | <1.0              | <5.0             | <1.0                 | <1.0          | <5.0         | <1.0       | <5.0          | <1.0        | <5.0                        | <1.0                 | <0.25                    | <5.0           | <0.23 | <5.0 |
| MW-111   | 4' - 9'                | 4/9/2020    | <50.0                                   | <2.0          | <5.0                   | <1.0     | <1.0         | <0.22              | <1.0                 | <1.0      | <5.0         | <25.0                  | <50.0              | <1.0           | <1.0             | <1.0              | <5.0             | <1.0                 | <1.0          | <5.0         | <1.0       | <5.0          | <1.0        | <5.0                        | <1.0                 | <0.25                    | <5.0           | <0.23 | <5.0 |
| MW-112   | 4' - 9'                | 4/9/2020    | <50.0                                   | <2.0          | <5.0                   | <1.0     | <1.0         | <0.22              | <1.0                 | <1.0      | <5.0         | <25.0                  | <50.0              | <1.0           | <1.0             | <1.0              | <5.0             | <1.0                 | <1.0          | <5.0         | <1.0       | <5.0          | <1.0        | <5.0                        | <1.0                 | <0.25                    | <5.0           | <0.23 | <5.0 |
| MW-113   | 8' - 13'               | 4/9/2020    | <50.0                                   | <2.0          | <5.0                   | <1.0     | <1.0         | <0.22              | <1.0                 | <1.0      | <5.0         | <25.0                  | <50.0              | <1.0           | <1.0             | <1.0              | <5.0             | <1.0                 | <1.0          | <5.0         | <1.0       | <5.0          | <1.0        | <5.0                        | <1.0                 | <0.25                    | <5.0           | <0.23 | <5.0 |
| MW-114   | 8' - 13'               | 4/9/2020    | <50.0                                   | <2.0          | <5.0                   | 1.9      | <1.0         | <0.22              | <1.0                 | <1.0      | <5.0         | <25.0                  | <50.0              | <1.0           | <1.0             | <1.0              | <5.0             | <1.0                 | <1.0          | <5.0         | <1.0       | <5.0          | <1.0        | <5.0                        | <1.0                 | <0.25                    | <5.0           | <0.23 | <5.0 |
| MW-115   | 7.5' - 12.5'           | 4/9/2020    | <50.0                                   | <2.0          | <5.0                   | 1.5      | <1.0         | <0.22              | <1.0                 | <1.0      | <5.0         | <25.0                  | <50.0              | <1.0           | <1.0             | <1.0              | <5.0             | <1.0                 | <1.0          | <5.0         | <1.0       | <5.0          | <1.0        | <5.0                        | <1.0                 | <0.25                    | <5.0           | <0.23 | <5.0 |
| MW-116   | 8' - 13'               | 4/9/2020    | <50.0                                   | <2.0          | <5.0                   | <1.0     | <1.0         | <0.22              | <1.0                 | <1.0      | <5.0         | <25.0                  | <50.0              | <1.0           | <1.0             | <1.0              | <5.0             | <1.0                 | <1.0          | <5.0         | <1.0       | <5.0          | <1.0        | <5.0                        | <1.0                 | <0.25                    | <5.0           | <0.23 | <5.0 |
| MW-117   | 7.5' - 12.5'           | 4/9/2020    | <50.0                                   | <2.0          | <5.0                   | <1.0     | <1.0         | <0.22              | <1.0                 | <1.0      | <5.0         | <25.0                  | <50.0              | <1.0           | <1.0             | <1.0              | <5.0             | <1.0                 | <1.0          | <5.0         | <1.0       | <5.0          | <1.0        | <5.0                        | <1.0                 | <0.25                    | <5.0           | <0.23 | <5.0 |
| MW-118   | 11' - 16'              | 4/9/2020    | <50.0                                   | <2.0          | <5.0                   | <1.0     | <1.0         | <0.22              | <1.0                 | <1.0      | <5.0         | <25.0                  | <50.0              | <1.0           | <1.0             | <1.0              | <5.0             | <1.0                 | <1.0          | <5.0         | <1.0       | <5.0          | <1.0        | <5.0                        | <1.0                 | <0.25                    | <5.0           | <0.23 | <5.0 |
| MW-119   | 5' - 10'               | 4/23/2020   | <50.0                                   | <2.0          | <5.0                   | <1.0     | <1.0         | <0.59              | <1.0                 | <1.0      | <5.0         | <25.0                  | <50.0              | <1.0           | <1.0             | <1.0              | <5.0             | <1.0                 | <1.0          | <5.0         | <1.0       | <5.0          | <1.0        | <5.0                        | <1.0                 | <0.25                    | <5.0           | <0.23 | <5.0 |
| MW-120   | 3' - 8'                | 4/23/2020   | <50.0                                   | <2.0          | <5.0                   | <1.0     | <1.0         | <0.59              | <1.0                 | <1.0      | <5.0         | <25.0                  | <50.0              | <1.0           | <1.0             | <1.0              | <5.0             | <1.0                 | <1.0          | <5.0         | <1.0       | <5.0          | <1.0        | <5.0                        | <1.0                 | <0.25                    | <5.0           | <0.23 | <5.0 |
| MW-121   | 8' - 13'               | 4/23/2020   | <50.0                                   | <2.0          | <5.0                   | <1.0     | <1.0         | <0.59              | <1.0                 | <1.0      | <5.0         | <25.0                  | <50.0              | <1.0           | <1.0             | <1.0              | <5.0             | <1.0                 | <1.0          | <5.0         | <1.0       | <5.0          | <1.0        | <5.0                        | <1.0                 | <0.25                    | <5.0           | <0.23 | <5.0 |
| MW-122   | 5' - 10'               | 6/24/2020   | <50.0                                   | <2.0          | <5.0                   | <1.0     | <1.0         | <0.22              | <1.0                 | <1.0      | <5.0         | <25.0                  | <50.0              | <1.0           | <1.0             | <1.0              | <5.0             | <1.0                 | <1.0          | <5.0         | <1.0       | <5.0          | <1.0        | <5.0                        | <1.0                 | <0.25                    | <5.0           | <0.23 | <5.0 |
| MW-123   | 5' - 10'               | 6/23/2020   | <50.0                                   | <2.0          | <5.0                   | <1.0     | <1.0         | <0.22              | <1.0                 | <1.0      | <5.0         | <25.0                  | <50.0              | <1.0           | <1.0             | <1.0              | <5.0             | <1.0                 | <1.0          | <5.0         | <1.0       | <5.0          | <1.0        | <5.0                        | <1.0                 | <0.25                    | <5.0           | <0.23 | <5.0 |
| MW-124   | 7' - 12'               | 6/23/2020   | <50.0                                   | <2.0          | <5.0                   | <1.0     | <1.0         | <0.22              | <1.0                 | <1.0      | <5.0         | <25.0                  | <50.0              | <1.0           | <1.0             | <1.0              | <5.0             | <1.0                 | <1.0          | <5.0         | <1.0       | <5.0          | <1.0        | <5.0                        | <1.0                 | <0.25                    | <5.0           | <0.23 | <5.0 |
| MW-125   | 8' - 13'               | 6/23/2020   | <50.0                                   | <2.0          | <5.0                   | <1.0     | <1.0         | <0.22              | <1.0                 | <1.0      | <5.0         | <25.0                  | <50.0              | <1.0           | <1.0             | <1.0              | <5.0             | <1.0                 | <1.0          | <5.0         | <1.0       | <5.0          | <1.0        | <5.0                        | <1.0                 | <0.25                    | <5.0           | <0.23 | <5.0 |
| MW-126   | 8.5' - 13.5'           | 6/23/2020   | <50.0                                   | <2.0          | <5.0                   | <1.0     | <1.0         | <0.22              | <1.0                 | <1.0      | <5.0         | <25.0                  | <50.0              | <1.0           | <1.0             | <1.0              | <5.0             | <1.0                 | <1.0          | <5.0         | <1.0       | <5.0          | <1.0        | <5.0                        | <1.0                 | <0.25                    | <5.0           | <0.23 | <5.0 |
| MW-127   | 8' - 13'               | 6/24/2020   | <50.0                                   | <2.0          | <5.0                   | <1.0     | <1.0         | <0.22              | <1.0                 | <1.0      | <5.0         | <25.0                  | <50.0              | <1.0           | <1.0             | <1.0              | <5.0             | <1.0                 | 2.7           | <5.0         | <1.0       | <5.0          | <1.0        | <5.0                        | <1.0                 | <0.25                    | <5.0           | <0.23 | <5.0 |
| MW-128   | 8' - 13'               | 6/24/2020   | <50.0                                   | <2.0          | <5.0                   | <1.0     | <1.0         | <0.22              | <1.0                 | <1.0      | <5.0         | <25.0                  | <50.0              | <1.0           | <1.0             | <1.0              | <5.0             | <1.0                 | <1.0          | <5.0         | <1.0       | <5.0          | <1.0        | <5.0                        | <1.0                 | <0.25                    | <5.0           | <0.23 | <5.0 |
| MW-129   | 8' - 13'               | 6/24/2020   | <50.0                                   | <2.0          | <5.0                   | <1.0     | <1.0         | <0.22              | <1.0                 | <1.0      | <5.0</       |                        |                    |                |                  |                   |                  |                      |               |              |            |               |             |                             |                      |                          |                |       |      |

Table 2A - Summary of Groundwater Analytical Results - Volatile Organic Compounds  
Former Hayes Lemmerz Site  
W. Eight Mile Road, Ferndale, Oakland County, Michigan

| EGLE Part 201 Generic Cleanup Criteria and Screening Levels, dated January 10, 2018; GSI Criteria Updated June 25, 2018 (ug/L); VIAP Screening Levels Updated September 4, 2020. | 1,2-Dichlorobenzene           | 1,3-Dichlorobenzene | 1,4-Dichlorobenzene                            | trans-1,4-Dichloro-2-butene | Dichlorodifluoromethane | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropane | trans-1,3-Dichloropropane | Diethyl ether (Ethyl ether) | Diisopropyl ether | 1,4-Dioxane | Ethylbenzene | Ethyl-Hex-butyl ether | Hexachloroethane | Hexanone | Iodomethane | Isopropylbenzene (Cumene) | n-Propyltoluene | Methylene Chloride | 2-Methylnaphthalene | n-Butyl-2-pentanone (MIBK) |      |        |      |        |      |
|--|-------------------------------|---------------------|--|-----------------------------|-------------------------|--------------------|--------------------|--------------------|------------------------|--------------------------|---------------------|-------------------------|---------------------------|-----------------------------|-------------------|-------------|--------------|-----------------------|------------------|----------|-------------|---------------------------|-----------------|--------------------|---------------------|----------------------------|------|--------|------|--------|------|
| CAS Number   | 95-50-1                       | 541-73-1            | 106-46-7                                       | 110-57-6                    | 75-71-8                 | 75-34-3            | 107-06-2           | 7-53-4             | 156-59-2               | 156-60-5                 | 78-87-5             | 638-04-0                | 918-84-3                  | 60-29-7                     | 108-20-3          | 123-91-1    | 100-41-4     | 637-92-3              | 67-72-1          | 591-78-6 | 74-88-4     | 98-82-8                   | 99-87-6         | 75-09-2            | 91-57-6             | 108-10-1                   |      |        |      |        |      |
| Residential Drinking Water Criteria  | 600                           | 6.6                 | 75   | --                          | 1,700                   | 880                | 5                  | 7                  | 70                     | 100                      | 5                   | --                      | --                        | 10                          | 30                | 7.2         | 74           | 49                    | 7.3              | 1,000    | --          | 800                       | --              | 5                  | 260                 | 1,800                      |      |        |      |        |      |
| Nonresidential Drinking Water Criteria   | 600                           | 19                  | 75   | --                          | 4,800                   | 2,500              | 5                  | 7                  | 70                     | 100                      | 5                   | --                      | --                        | 10                          | 86                | 350         | 74           | 49                    | 21               | 2,900    | --          | 2,300                     | --              | 5                  | 750                 | 5,200                      |      |        |      |        |      |
| Groundwater Surface Water Interface Criteria   | 13                            | 28                  | 17   | --                          | ID                      | 740                | 360                | 130                | 620                    | 1,500                    | 230                 | --                      | --                        | ID                          | ID                | 280         | 18           | ID                    | 7                | ID       | --          | 28                        | --              | 1,500              | 19                  | ID                         |      |        |      |        |      |
| Residential Volatilization to Indoor Air Pathway (VIAP)  | 370                           | 2.6                 | 5.9  | --                          | 13                      | 4.7                | 1.4                | 4.7                | 3.4                    | 16                       | 2.6                 | --                      | --                        | 1,200                       | 36                | 1,900       | 2.8          | 22                    | 1.5              | 660      | --          | 0.60                      | --              | 79                 | 66                  | 200                        |      |        |      |        |      |
| Nonresidential Volatilization to Indoor Air Pathway (VIAP)   | 16,000                        | 110                 | 400  | --                          | 410                     | 300                | 97                 | 480                | 140                    | 580                      | 110                 | --                      | --                        | 53,000                      | 13,000            | 1.30E+05    | 170          | 580                   | 100              | 29,000   | --          | 36                        | --              | 12,000             | 2,900               | 3.30E+05                   |      |        |      |        |      |
| Water Solubility   | 1.56E+05                      | 1.11E+05            | 73,800   | --                          | 3.00E+05                | 5.06E+06           | 8.52E+06           | 2.25E+06           | 3.50E+06               | 6.30E+06                 | 2.80E+06            | --                      | --                        | 6.1E+7 (S)                  | 8,041             | --          | 1.69E+05     | 5.63E+06              | 5.00E+04         | 1.60E+07 | --          | 56,000                    | --              | 1.70E+07           | 2.46E+04            | 2.00E+07                   |      |        |      |        |      |
| <b>Well ID</b>   | <b>Screen Interval (feet)</b> | <b>Sample Date</b>  | <b>Reported in micrograms per liter (ug/L)</b> |                             |                         |                    |                    |                    |                        |                          |                     |                         |                           |                             |                   |             |              |                       |                  |          |             |                           |                 |                    |                     |                            |      |        |      |        |      |
| MW-101   | 7.5' - 12.5'                  | 4/8/2020            | <1.0   | <1.0                        | <1.0                    | <0.40              | <5.0               | <1.0               | <1.0                   | <1.0                     | <1.0                | <1.0                    | <1.0                      | <1.0                        | <1.0              | <1.0        | <1.0         | <5.0                  | <5.0             | NA       | <1.0        | <5.0                      | <5.0            | <5.0               | <5.0                | <0.45                      | <5.0 | <0.11  | <5.0 | <5.0   | <5.0 |
| MW-102   | 8' - 13'                      | 4/8/2020            | <1.0   | <1.0                        | <1.0                    | <0.82              | <5.0               | <1.0               | <1.0                   | <1.0                     | <1.0                | <1.0                    | <1.0                      | <1.0                        | <1.0              | <1.0        | <1.0         | <5.0                  | <5.0             | NA       | <1.0        | <5.0                      | <5.0            | <5.0               | <5.0                | <0.45                      | <5.0 | <0.28  | <5.0 | <5.0   | <5.0 |
| MW-103   | 8' - 13'                      | 4/8/2020            | <1.0   | <1.0                        | <1.0                    | <0.82              | <5.0               | <1.0               | <1.0                   | <1.0                     | <1.0                | <1.0                    | <1.0                      | <1.0                        | <1.0              | <1.0        | <1.0         | <5.0                  | <5.0             | NA       | <1.0        | <5.0                      | <5.0            | <5.0               | <5.0                | <0.45                      | <5.0 | <0.28  | <5.0 | <5.0   | <5.0 |
| MW-104   | 15' - 20'                     | 4/8/2020            | <1.0   | <1.0                        | <1.0                    | <0.82              | <5.0               | <1.0               | <1.0                   | <1.0                     | <1.0                | <1.0                    | <1.0                      | <1.0                        | <1.0              | <1.0        | <1.0         | <5.0                  | <5.0             | NA       | <1.0        | <5.0                      | <5.0            | <5.0               | <5.0                | <0.45                      | <5.0 | <0.28  | <5.0 | <5.0   | <5.0 |
| MW-105   | 9' - 14'                      | 4/8/2020            | <1.0   | <1.0                        | <1.0                    | <0.82              | <5.0               | <1.0               | <1.0                   | <1.0                     | <1.0                | <1.0                    | <1.0                      | <1.0                        | <1.0              | <1.0        | <1.0         | <5.0                  | <5.0             | NA       | <1.0        | <5.0                      | <5.0            | <5.0               | <5.0                | <0.45                      | <5.0 | <0.28  | <5.0 | <5.0   | <5.0 |
| MW-106   | 7.5' - 12.5'                  | 4/8/2020            | <1.0   | <1.0                        | <1.0                    | <0.82              | <5.0               | <1.0               | <1.0                   | <1.0                     | <1.0                | <1.0                    | <1.0                      | <1.0                        | <1.0              | <1.0        | <1.0         | <5.0                  | <5.0             | NA       | <1.0        | <5.0                      | <5.0            | <5.0               | <5.0                | <0.45                      | <5.0 | <0.28  | <5.0 | <5.0   | <5.0 |
| MW-107   | 7' - 12'                      | 4/8/2020            | <1.0   | <1.0                        | <1.0                    | <0.82              | <5.0               | <1.0               | <1.0                   | <1.0                     | <1.0                | <1.0                    | <1.0                      | <1.0                        | <1.0              | <1.0        | <1.0         | <5.0                  | <5.0             | NA       | <1.0        | <5.0                      | <5.0            | <5.0               | <5.0                | <0.45                      | <5.0 | <0.28  | <5.0 | <5.0   | <5.0 |
| MW-108   | 5' - 10'                      | 4/8/2020            | <1.0   | <1.0                        | <1.0                    | <0.82              | <5.0               | <1.0               | <1.0                   | <1.0                     | <1.0                | <1.0                    | <1.0                      | <1.0                        | <1.0              | <1.0        | <1.0         | <5.0                  | <5.0             | NA       | <1.0        | <5.0                      | <5.0            | <5.0               | <5.0                | <0.45                      | <5.0 | <0.28  | <5.0 | <5.0   | <5.0 |
| MW-109   | 5' - 10'                      | 4/8/2020            | <1.0   | <1.0                        | <1.0                    | <0.40              | <5.0               | <1.0               | <1.0                   | <1.0                     | <1.0                | <1.0                    | <1.0                      | <1.0                        | <1.0              | <1.0        | <1.0         | <5.0                  | <5.0             | NA       | <1.0        | <5.0                      | <5.0            | <5.0               | <5.0                | <0.51                      | <5.0 | <0.11  | <5.0 | <5.0   | <5.0 |
| MW-110   | 5' - 10'                      | 4/9/2020            | <1.0   | <1.0                        | <1.0                    | <0.40              | <5.0               | <1.0               | <1.0                   | <1.0                     | <1.0                | <1.0                    | <1.0                      | <1.0                        | <1.0              | <1.0        | <1.0         | <5.0                  | <5.0             | NA       | <1.0        | <5.0                      | <5.0            | <5.0               | <5.0                | <0.51                      | <5.0 | <0.11  | <5.0 | <5.0   | <5.0 |
| MW-111   | 4' - 9'                       | 4/9/2020            | <1.0   | <1.0                        | <1.0                    | <0.40              | <5.0               | <1.0               | <1.0                   | <1.0                     | <1.0                | <1.0                    | <1.0                      | <1.0                        | <1.0              | <1.0        | <1.0         | <5.0                  | <5.0             | NA       | <1.0        | <5.0                      | <5.0            | <5.0               | <5.0                | <0.51                      | <5.0 | <0.11  | <5.0 | <5.0   | <5.0 |
| MW-112   | 4' - 9'                       | 4/9/2020            | <1.0   | <1.0                        | <1.0                    | <0.40              | <5.0               | <1.0               | <1.0                   | <1.0                     | <1.0                | <1.0                    | <1.0                      | <1.0                        | <1.0              | <1.0        | <1.0         | <5.0                  | <5.0             | NA       | <1.0        | <5.0                      | <5.0            | <5.0               | <5.0                | <0.51                      | <5.0 | <0.11  | <5.0 | <5.0   | <5.0 |
| MW-113   | 8' - 13'                      | 4/9/2020            | <1.0   | <1.0                        | <1.0                    | <0.40              | <5.0               | <1.0               | <1.0                   | <1.0                     | <1.0                | <1.0                    | <1.0                      | <1.0                        | <1.0              | <1.0        | <1.0         | <5.0                  | <5.0             | NA       | <1.0        | <5.0                      | <5.0            | <5.0               | <5.0                | <0.51                      | <5.0 | <0.11  | <5.0 | <5.0   | <5.0 |
| MW-114   | 8' - 13'                      | 4/9/2020            | <1.0   | <1.0                        | <1.0                    | <0.40              | <5.0               | <1.0               | 1.1                    | <1.0                     | 6.4                 | 1.2                     | <1.0                      | <1.0                        | <1.0              | <1.0        | <1.0         | <5.0                  | <5.0             | NA       | <1.0        | <5.0                      | <5.0            | <5.0               | <5.0                | <0.51                      | <5.0 | <0.11  | <5.0 | <5.0   | <5.0 |
| MW-115   | 7.5' - 12.5'                  | 4/9/2020            | <1.0   | <1.0                        | <1.0                    | <0.40              | <5.0               | <1.0               | <1.0                   | <1.0                     | <1.0                | <1.0                    | <1.0                      | <1.0                        | <1.0              | <1.0        | <1.0         | <5.0                  | <5.0             | NA       | <1.0        | <5.0                      | <5.0            | <5.0               | <5.0                | <0.51                      | <5.0 | <0.11  | <5.0 | <5.0   | <5.0 |
| MW-116   | 8' - 13'                      | 4/9/2020            | <1.0   | <1.0                        | <1.0                    | <0.40              | <5.0               | <1.0               | <1.0                   | <1.0                     | <1.0                | <1.0                    | <1.0                      | <1.0                        | <1.0              | <1.0        | <1.0         | <5.0                  | <5.0             | NA       | <1.0        | <5.0                      | <5.0            | <5.0               | <5.0                | <0.51                      | <5.0 | <0.11  | <5.0 | <5.0   | <5.0 |
| MW-117   | 7.5' - 12.5'                  | 4/9/2020            | <1.0   | <1.0                        | <1.0                    | <0.40              | <5.0               | <1.0               | <1.0                   | <1.0                     | <1.0                | <1.0                    | <1.0                      | <1.0                        | <1.0              | <1.0        | <1.0         | <5.0                  | <5.0             | NA       | <1.0        | <5.0                      | <5.0            | <5.0               | <5.0                | <0.51                      | <5.0 | <0.11  | <5.0 | <5.0   | <5.0 |
| MW-118   | 11' - 16'                     | 4/9/2020            | <1.0   | <1.0                        | <1.0                    | <0.40              | <5.0               | <1.0               | <1.0                   | <1.0                     | <1.0                | <1.0                    | <1.0                      | <1.0                        | <1.0              | <1.0        | <1.0         | <5.0                  | <5.0             | NA       | <1.0        | <5.0                      | <5.0            | <5.0               | <5.0                | <0.51                      | <5.0 | <0.11  | <5.0 | <5.0   | <5.0 |
| MW-119   | 5' - 10'                      | 4/23/2020           | <1.0   | <1.0                        | <1.0                    | <0.82              | <5.0               | <1.0               | <1.0                   | <1.0                     | <1.0                | <1.0                    | <1.0                      | <1.0                        | <1.0              | <1.0        | <1.0         | <5.0                  | <5.0             | NA       | <1.0        | <5.0                      | <5.0            | <5.0               | <5.0                | <0.45                      | <5.0 | <0.28  | <5.0 | <5.0   | <5.0 |
| MW-120   | 3' - 8'                       | 4/23/2020           | <1.0   | <1.0                        | <1.0                    | <0.82              | <5.0               | <1.0               | <1.0                   | <1.0                     | <1.0                | <1.0                    | <1.0                      | <1.0                        | <1.0              | <1.0        | <1.0         | <5.0                  | <5.0             | NA       | <1.0        | <5.0                      | <5.0            | <5.0               | <5.0                | <0.45                      | <5.0 | <0.28  | <5.0 | <5.0   | <5.0 |
| MW-121   | 8' - 13'                      | 4/23/2020           | <1.0   | <1.0                        | <1.0                    | <0.82              | <5.0               | <1.0               | <1.0                   | <1.0                     | <1.0                | <1.0                    | <1.0                      | <1.0                        | <1.0              | <1.0        | <1.0         | <5.0                  | <5.0             | NA       | <1.0        | <5.0                      | <5.0            | <5.0               | <5.0                | <0.45                      | <5.0 | <0.28  | <5.0 | <5.0   | <5.0 |
| MW-122   | 5' - 10'                      | 6/24/2020           | <1.0   | <1.0                        | <1.0                    | <0.40              | <5.0               | <1.0               | <1.0                   | <1.0                     | <1.0                | <1.0                    | <1.0                      | <1.0                        | <1.0              | <1.0        | <1.0         | <5.0                  | <5.0             | <0.090   | <1.0        | <5.0                      | <5.0            | <5.0               | <5.0                | <0.51                      | <5.0 | <0.11  | <5.0 | <5.0   | <5.0 |
| MW-123   | 5' - 10'                      | 6/23/2020           | <1.0   | <1.0                        | <1.0                    | <0.40              | <5.0               | <1.0               | <1.0                   | <1.0                     | <1.0                | <1.0                    | <1.0                      | <1.0                        | <1.0              | <1.0        | <1.0         | <5.0                  | <5.0             | NA       | <1.0        | <5.0                      | <5.0            | <5.0               | <5.0                | <0.51                      | <5.0 | <0.11  | <5.0 | <5.0   | <5.0 |
| MW-124   | 7' - 12'                      | 6/23/2020           | <1.0   | <1.0                        | <1.0                    | <0.40              | <5.0               | <1.0               | <1.0                   | <1.0                     | <1.0                | <1.0                    | <1.0                      | <1.0                        | <1.0              | <1.0        | <1.0         | <5.0                  | <5.0             | NA       | <1.0        | <5.0                      | <5.0            | <5.0               | <5.0                | <0.51                      | <5.0 | <0.11  | <5.0 | <5.0   | <5.0 |
| MW-125   | 8' - 13'                      | 6/23/2020           | <1.0   | <1.0                        | <1.0                    | <0.40              | <5.0               | <1.0               | <1.0                   | <1.0                     | <1.0                | <1.0                    | <1.0                      | <1.0                        | <1.0              | <1.0        | <1.0         | <5.0                  | <5.0             | NA       | <1.0        | <5.0                      | <5.0            | <5.0               | <5.0                | <0.51                      | <5.0 | <0.11  | <5.0 | <5.0   | <5.0 |
| MW-126   | 8.5' - 13.5'                  | 6/23/2020           | <1.0   | <1.0                        | <1.0                    | <0.40              | <5.0               | <1.0               | <1.0                   | <1.0                     | <1.0                | <1.0                    | <1.0                      | <1.0                        | <1.0              | <1.0        | <1.0         | <5.0                  | <5.0             | <0.090   | <1.0        | <5.0                      | <5.0            | <5.0               | <5.0                | <0.51                      | <5.0 | <0.11  | <5.0 | <5.0   | <5.0 |
| MW-127   | 8' - 13'                      | 6/24/2020           | 1.6  | <1.0                        | <1.0                    | <0.40              | <5.0               | <1.0               | <1.0                   | <1.0                     | <1.0                | <1.0                    | <1.0                      | <1.0                        | <1.0              | <1.0        | <1.0         | <5.0                  | <5.0             | <0.090   | <1.0        | <5.0                      | <5.0            | <5.0               | <5.0                | <0.51                      | <5.0 | 0.12 J | <5.0 | 18.5 J | <5.0 |
| MW-128</   |                               |                     |  |                             |                         |                    |                    |                    |                        |                          |                     |                         |                           |                             |                   |             |              |                       |                  |          |             |                           |                 |                    |                     |                            |      |        |      |        |      |

Table 2A - Summary of Groundwater Analytical Results - Volatile Organic Compounds  
Former Hayes Lemmer Site  
W. Eight Mile Road, Ferndale, Oakland County, Michigan

| EGLE Part 201 Generic Cleanup Criteria and Screening Levels, dated January 10, 2018; GSI Criteria Updated June 25, 2018 (ug/L); VIAP Screening Levels Updated September 4, 2020. |                        |             | Methyl-terbutyl ether                   | Naphthalene | n-Propylbenzene | Styrene  | 1,1,1,2-Tetrachloroethane | 1,1,2,2-Tetrachloroethane | Tetrachloroethene | Tetrahydrofuran | Toluene  | 1,2,3-Trichlorobenzene | 1,2,4-Trichlorobenzene | 1,1,1-Trichloroethane | 1,1,2-Trichloroethane | Trichloroethene | Trichlorofluoromethane | 1,2,3-Trichloropropane | 1,2,3-Trimethylbenzene | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | Vinyl chloride | Xylenes  | n-Butanol | Ethanol | Methanol |  |
|--|------------------------|-------------|---|-------------|-----------------|----------|---------------------------|---------------------------|-------------------|-----------------|----------|------------------------|------------------------|-----------------------|-----------------------|-----------------|------------------------|------------------------|------------------------|------------------------|------------------------|----------------|----------|-----------|---------|----------|--|
| CAS Number   | 1634-04-4              | 91-20-3     | 103-65-1                                | 100-42-5    | 630-20-6        | 79-34-5  | 127-18-4                  | 109-99-9                  | 108-88-3          | 87-61-6         | 120-82-1 | 71-55-6                | 79-00-5                | 79-01-6               | 75-69-4               | 96-18-4         | 526-73-8               | 95-63-6                | 108-67-8               | 75-01-4                | 1330-20-7              | 71-36-3        | 64-17-5  | 67-56-1   |         |          |  |
| Residential Drinking Water Criteria  | 40                     | 520         | 80                                      | 100         | 77              | 9        | 5                         | 95                        | 790               | -               | 70       | 200                    | 5                      | 5                     | 2,600                 | 42              | -                      | 63                     | 72                     | 2                      | 280                    | 950            | 1.90E+06 | 3,700     |         |          |  |
| Nonresidential Drinking Water Criteria   | 40                     | 1500        | 230                                     | 100         | 320             | 35       | 5                         | 270                       | 790               | -               | 70       | 200                    | 5                      | 5                     | 7,300                 | 120             | -                      | 63                     | 72                     | 2                      | 280                    | 2,700          | 3.80E+06 | 1,00E+04  |         |          |  |
| Groundwater Surface Water Interface Criteria   | 7,100                  | 11          | ID                                      | 80          | ID              | 78       | 60                        | 11,000                    | 270               | --              | 99       | 89                     | 330                    | 200                   | --                    | --              | --                     | 17                     | 45                     | 13                     | 49                     | 9,800          | ID       | 5,90E+05  |         |          |  |
| Residential Volatilization to Indoor Air Pathway (VIAP)  | 250                    | 4.2         | 43                                      | 33          | 3.1             | 2.4      | 1.5                       | 45,000                    | 300               | 58              | 3.8      | 180                    | 0.47                   | 0.073                 | 22                    | 1.9             | 43                     | 25                     | 18                     | 0.12                   | 75                     | 98,000         | 100,000  | 120,000   |         |          |  |
| Nonresidential Volatilization to Indoor Air Pathway (VIAP)   | 17,000                 | 300         | 6,100                                   | 2,300       | 210             | 170      | 130                       | 2,00E+05                  | 59,000            | 2,600           | 160      | 19,000                 | 20                     | 10                    | 560                   | 84              | 1,800                  | 990                    | 690                    | 18.0                   | 3,000                  | 4.30E+06       | 2.30E+08 | 230000000 |         |          |  |
| Water Solubility   | 4.68E+07               | 3.10E+04    | --                                      | 3.10E+05    | 1.10E+06        | 2.97E+06 | 2.00E+05                  | 1.00E+09                  | 5.26E+05          | --              | 3.00E+05 | 1.33E+06               | 4.42E+06               | 1.10E+06              | 1.10E+06              | --              | --                     | 5.59E+04               | 6.12E+04               | 2.76E+06               | 1.86E+05               | 7.40E+07       | 9.70E+07 | 2.90E+07  |         |          |  |
| Well ID  | Screen Interval (feet) | Sample Date | Reported in micrograms per liter (ug/L) |             |                 |          |                           |                           |                   |                 |          |                        |                        |                       |                       |                 |                        |                        |                        |                        |                        |                |          |           |         |          |  |
| MW-101   | 7.5' - 12.5'           | 4/8/2020    | <5.0                                    | <5.0        | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <1.0            | <5.0     | <5.0                   | <1.0                   | <1.0                  | <1.0                  | <1.0            | <1.0                   | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | <0.40    | <800      | <1,000  | <400     |  |
| MW-102   | 8' - 13'               | 4/8/2020    | <5.0                                    | <5.0        | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <90.0           | <1.0     | <5.0                   | <5.0                   | <1.0                  | <1.0                  | <1.0            | <1.0                   | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | <0.55    | <800      | <1,000  | <400     |  |
| MW-103   | 8' - 13'               | 4/8/2020    | <5.0                                    | <5.0        | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <90.0           | <1.0     | <5.0                   | <5.0                   | <1.0                  | <1.0                  | <1.0            | 1.9 J                  | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | <0.55    | <800      | <1,000  | <400     |  |
| MW-104   | 15' - 20'              | 4/8/2020    | <5.0                                    | <5.0        | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <90.0           | <1.0     | <5.0                   | <5.0                   | <1.0                  | <1.0                  | <1.0            | 2.3                    | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | <0.55    | <800      | <1,000  | <400     |  |
| MW-105   | 9' - 14'               | 4/8/2020    | <5.0                                    | <5.0        | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <90.0           | <1.0     | <5.0                   | <5.0                   | <1.0                  | <1.0                  | <1.0            | <1.0                   | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | <0.55    | <800      | <1,000  | <400     |  |
| MW-106   | 7.5' - 12.5'           | 4/8/2020    | <5.0                                    | <5.0        | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <90.0           | <1.0     | <5.0                   | <5.0                   | <1.0                  | <1.0                  | <1.0            | <1.0                   | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | <0.55    | <800      | <1,000  | <400     |  |
| MW-107   | 7' - 12'               | 4/8/2020    | <5.0                                    | <5.0        | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <90.0           | <1.0     | <5.0                   | <5.0                   | <1.0                  | <1.0                  | 18.5            | 4.5                    | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | <0.55    | <800      | <1,000  | <400     |  |
| MW-108   | 5' - 10'               | 4/8/2020    | <5.0                                    | <5.0        | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <90.0           | <1.0     | <5.0                   | <5.0                   | <1.0                  | <1.0                  | <1.0            | 1.5 J                  | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | <0.55    | <800      | <1,000  | <400     |  |
| MW-109   | 5' - 10'               | 4/8/2020    | <5.0                                    | <5.0        | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <90.0           | <1.0     | <5.0                   | <5.0                   | <1.0                  | <1.0                  | <1.0            | <1.0                   | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | <0.40    | <800      | <1,000  | <400     |  |
| MW-110   | 5' - 10'               | 4/9/2020    | <5.0                                    | <5.0        | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <90.0           | <1.0     | <5.0                   | <5.0                   | <1.0                  | <1.0                  | <1.0            | <1.0                   | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | <0.40    | <800      | <1,000  | <400     |  |
| MW-111   | 4' - 9'                | 4/9/2020    | <5.0                                    | <5.0        | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <90.0           | <1.0     | <5.0                   | <5.0                   | <1.0                  | <1.0                  | <1.0            | 2.7                    | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | <0.40    | <800      | <1,000  | <400     |  |
| MW-112   | 4' - 9'                | 4/9/2020    | <5.0                                    | <5.0        | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <90.0           | <1.0     | <5.0                   | <5.0                   | <1.0                  | <1.0                  | <1.0            | <1.0                   | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | <0.40    | <800      | <1,000  | <400     |  |
| MW-113   | 8' - 13'               | 4/9/2020    | <5.0                                    | <5.0        | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <90.0           | <1.0     | <5.0                   | <5.0                   | <1.0                  | <1.0                  | <1.0            | <1.0                   | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | <0.40    | <800      | <1,000  | <400     |  |
| MW-114   | 8' - 13'               | 4/9/2020    | <5.0                                    | <5.0        | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <90.0           | <1.0     | <5.0                   | <5.0                   | <1.0                  | <1.0                  | <1.0            | 1.4                    | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | <0.40    | <800      | <1,000  | <400     |  |
| MW-115   | 7.5' - 12.5'           | 4/9/2020    | <5.0                                    | 6.9         | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <90.0           | <1.0     | <5.0                   | <5.0                   | <1.0                  | <1.0                  | <1.0            | <1.0                   | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | 2.46 J   | <800      | <1,000  | <400     |  |
| MW-116   | 8' - 13'               | 4/9/2020    | <5.0                                    | <5.0        | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <90.0           | <1.0     | <5.0                   | <5.0                   | <1.0                  | <1.0                  | <1.0            | <1.0                   | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | <0.40    | <800      | <1,000  | <400     |  |
| MW-117   | 7.5' - 12.5'           | 4/9/2020    | <5.0                                    | <5.0        | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <90.0           | <1.0     | <5.0                   | <5.0                   | <1.0                  | <1.0                  | <1.0            | <1.0                   | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | <0.40    | <800      | <1,000  | <400     |  |
| MW-118   | 11' - 16'              | 4/9/2020    | <5.0                                    | <5.0        | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <90.0           | <1.0     | <5.0                   | <5.0                   | <1.0                  | <1.0                  | <1.0            | <1.0                   | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | <0.40    | <800      | <1,000  | <400     |  |
| MW-119   | 5' - 10'               | 4/23/2020   | <5.0                                    | <5.0        | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <90.0           | <1.0     | <5.0                   | <5.0                   | <1.0                  | <1.0                  | <1.0            | <1.0                   | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | <0.55    | <800      | <1,000  | 1,470 J  |  |
| MW-120   | 3' - 8'                | 4/23/2020   | <5.0                                    | <5.0        | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <90.0           | <1.0     | <5.0                   | <5.0                   | <1.0                  | <1.0                  | <1.0            | <1.0                   | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | <0.55    | <800      | <1,000  | 1,350 J  |  |
| MW-121   | 8' - 13'               | 4/23/2020   | <5.0                                    | <5.0        | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <90.0           | <1.0     | <5.0                   | <5.0                   | <1.0                  | <1.0                  | <1.0            | <1.0                   | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | <0.55    | <800      | <1,000  | 1,540 J  |  |
| MW-122   | 5' - 10'               | 6/24/2020   | <5.0                                    | <5.0        | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <90.0           | <1.0     | <5.0                   | <5.0                   | <1.0                  | <1.0                  | <1.0            | <1.0                   | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | <0.40    | NA        | NA      | NA       |  |
| MW-123   | 5' - 10'               | 6/23/2020   | <5.0                                    | <5.0        | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <90.0           | <1.0     | <5.0                   | <5.0                   | <1.0                  | <1.0                  | <1.0            | <1.0                   | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | <0.40    | NA        | NA      | NA       |  |
| MW-124   | 7' - 12'               | 6/23/2020   | <5.0                                    | <5.0        | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <90.0           | <1.0     | <5.0                   | <5.0                   | <1.0                  | <1.0                  | <1.0            | <1.0                   | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | <0.40    | NA        | NA      | NA       |  |
| MW-125   | 8' - 13'               | 6/23/2020   | <5.0                                    | <5.0        | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <90.0           | <1.0     | <5.0                   | <5.0                   | <1.0                  | <1.0                  | <1.0            | <1.0                   | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | <0.40    | <800      | <1000   | <400     |  |
| MW-126   | 8.5' - 13.5'           | 6/23/2020   | <5.0                                    | <5.0        | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | 6.0             | <90.0    | <1.0                   | <5.0                   | <5.0                  | <1.0                  | <1.0            | <1.0                   | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | <0.40    | NA        | NA      | NA       |  |
| MW-127   | 8' - 13'               | 6/24/2020   | <5.0                                    | 8.0         | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <90.0           | <1.0     | <5.0                   | <5.0                   | <1.0                  | <1.0                  | <1.0            | 1.1                    | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | <0.40    | NA        | NA      | NA       |  |
| MW-128   | 8' - 13'               | 6/24/2020   | <5.0                                    | <5.0        | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | 7.8             | <90.0    | <1.0                   | <5.0                   | <5.0                  | <1.0                  | <1.0            | <1.0                   | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | <0.40    | <800      | <1000   | <400     |  |
| MW-129   | 8' - 13'               | 6/24/2020   | <5.0                                    | <5.0        | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <90.0           | <1.0     | <5.0                   | <5.0                   | <1.0                  | <1.0                  | <1.0            | 1.5                    | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | <0.40    | NA        | NA      | NA       |  |
| MW-130   | 5' - 10'               | 6/23/2020   | <5.0                                    | <5.0        | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <90.0           | <1.0     | <5.0                   | <5.0                   | <1.0                  | <1.0                  | <1.0            | <1.0                   | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | <0.40    | <800      | <1000   | <400     |  |
| MW-131   | 5' - 10'               | 6/24/2020   | <5.0                                    | <5.0        | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <90.0           | <1.0     | <5.0                   | <5.0                   | <1.0                  | <1.0                  | <1.0            | <1.0                   | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | 0.18     | NA        | NA      | NA       |  |
| MW-12  | Unknown                | 6/23/2020   | <5.0                                    | <5.0        | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <90.0           | <1.0     | <5.0                   | <5.0                   | <1.0                  | <1.0                  | <1.0            | <1.0                   | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | <0.40    | NA        | NA      | NA       |  |
| MW-132   | 10' - 15'              | 8/13/2020   | <5.0                                    | 29.2        | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <90.0           | 1.5      | <5.0                   | <5.0                   | <1.0                  | <1.0                  | <1.0            | <1.0                   | <1.0                   | <5.0                   | 2.2 J                  | 1.1 J                  | <1.0           | 20.9     | <800      | <1000   | 8,740    |  |
| MW-133   | 10' - 15'              | 8/13/2020   | <5.0                                    | 8.9         | <100            | <1.0     | <1.0                      | <1.0                      | <1.0              | <90.0           | <1.0     | <5.0                   | <5.0                   | <1.0                  | <1.0                  | <1.0            | <1.0                   | <1.0                   | <5.0                   | <1.0                   | <1.0                   | <1.0           | <0.40    | NA        | NA      | NA       |  |

Notes:  
540 Analyte detected above laboratory method detection limits (MDLs).  
<5.0 Analyte "Not-Detected" above MDLs.  
4600 Analyte exceeds Residential Drinking Water Protection Criteria.  
4600 Analyte exceeds Nonresidential Drinking Water Protection Criteria.  
4600 Analyte exceeds Groundwater Surface Water Interface Protection Criteria.  
4.6 Analyte exceeds Residential Volatilization to Indoor Air Pathway (VIAP) Screening Levels.  
330 Analyte exceeds Nonresidential Volatilization to Indoor Air Pathway (VIAP

**Table 2B - Summary of Groundwater Analytical Results - Semi Volatile Organic Compounds (SVOCs)**  
 Former Hayes Lemmerz Site  
 W. Eight Mile Road, Ferndale, Oakland County, Michigan

| Well ID  | Screen Interval (feet) | Sample Date | Reported in micrograms per liter (ug/L) |                |            |                   |               |                     |               |           |          |          |          |                     |                            |            |                         |                            |                         |                             |                     |                |                      |           |                       |              |                    |                  |                    |                   |                      |
|--|------------------------|-------------|---|----------------|------------|-------------------|---------------|---------------------|---------------|-----------|----------|----------|----------|---------------------|----------------------------|------------|-------------------------|----------------------------|-------------------------|-----------------------------|---------------------|----------------|----------------------|-----------|-----------------------|--------------|--------------------|------------------|--------------------|-------------------|----------------------|
|  |                        |             | Acenaphthene                            | Acenaphthylene | Anthracene | Benz(a)anthracene | Benz(a)pyrene | Benz(b)fluoranthene | Benz(e)pyrene | 1,0,0,2,6 | 1,0,0,8  | 207-08-9 | 101-65-3 | 4-Bromophenyl ether | Bis(2-ethylhexyl)phthalate | Carbazole  | 4-Chloro-3-methylphenol | Bis(2-chloroethoxy)methane | Bis(2-chloroethyl)ether | Bis(2-chloroisopropyl)ether | 2-Chloronaphthalene | 2-Chlorophenol | 4-Chlorophenyl ether | Chrysene  | Dibenz(a,h)anthracene | Dibenzofuran | 2,4-Dichlorophenol | Diethylphthalate | 2,4-Dimethylphenol | Dimethylphthalate | Di-n-butyl phthalate |
| EGLE Part 201 Generic Cleanup Criteria and Screening Levels, dated January 10, 2018; GSI Criteria Updated June 25, 2018 (ug/L); VIAP Screening Levels Updated September 4, 2020. |                        |             |   |                |            |                   |               |                     |               |           |          |          |          |                     |                            |            |                         |                            |                         |                             |                     |                |                      |           |                       |              |                    |                  |                    |                   |                      |
| CAS Number   |                        |             | 83-32-9                                 | 208-96-8       | 120-12-7   | 56-55-3           | 50-32-8       | 205-99-2            | 191-24-2      | 207-08-9  | 101-65-3 | 85-68-7  | 86-74-8  | 59-50-7             | 111-91-1                   | 111-44-4   | 108-60-1                | 91-68-7                    | 95-57-8                 | 7005-72-3                   | 218-01-9            | 53-70-3        | 132-64-9             | 120-83-2  | 84-66-2               | 105-67-9     | 131-11-3           | 84-74-2          | 534-52-1           | 51-28-5           | 121-14-2             |
| Residential Drinking Water Criteria  |                        |             | 1,300                                   | 52             | 43         | 2.1               | 5             | 1.5                 | 1.0, 0.26     | 1.0, 0.8  | --       | 1,200    | 85       | 150                 | --                         | 2          | --                      | 1,800                      | 45                      | --                          | 1.6                 | 2.0, 0.21      | ID                   | 73        | 5,500                 | 370          | 73,000             | 880              | 20, 2.6            | --                | 7.7                  |
| Nonresidential Drinking Water Criteria   |                        |             | 3,800                                   | 150            | 43         | 8.5               | 5             | 1.5                 | 1.0, 0.26     | 1.0, 0.8  | --       | 2,700    | 350      | 420                 | --                         | 8.3        | --                      | 5,200                      | 130                     | --                          | 1.6                 | 2.0, 0.85      | ID                   | 210       | 16,000                | 1,000        | 2.10E+05           | 2,500            | 20, 7.3            | --                | 32                   |
| Groundwater Surface Water Interface Criteria   |                        |             | 38                                      | ID             | ID         | ID                | ID            | ID                  | ID            | NA        | --       | 67       | 10, 4.0  | 7.4                 | --                         | 1.0, 0.79  | --                      | NA                         | 18                      | --                          | ID                  | ID             | 4                    | 11        | 110                   | 380          | NA                 | 9.7              | NA                 | --                | NA                   |
| Residential Groundwater VIAP   |                        |             | 4,200                                   | 3,900          | 43         | NLV               | NLV           | ID                  | NLV           | NLV       | --       | NLV      | NLV      | NLV                 | --                         | 38,000     | --                      | ID                         | 4,90E+05                | --                          | ID                  | NLV            | 10,000               | NLV       | NLV                   | NLV          | NLV                | NLV              | NLV                | NLV               | NLV                  |
| Nonresidential Groundwater VIAP  |                        |             | 4,200                                   | 3,900          | 43         | NLV               | NLV           | ID                  | NLV           | NLV       | --       | NLV      | NLV      | NLV                 | --                         | 210,000    | --                      | ID                         | 1.10E+06                | --                          | ID                  | NLV            | 10,000               | NLV       | NLV                   | NLV          | NLV                | NLV              | NLV                | NLV               | NLV                  |
| Water Solubility   |                        |             | 4,240                                   | 3,930          | 43.4       | 9.4               | 1.62          | 1.5                 | 0.8           | 0.26      | --       | 2,690    | 7,480    | 3,900,000           | --                         | 17,200,000 | --                      | 6,740                      | 22,000,000              | --                          | 1.6                 | 2.49           | 10,000               | 4,500,000 | 1,080,000             | 7,870,000    | 4,190,000          | 11,200           | 200,000            | --                | 270,000              |

Notes:

|       |  |
|-------|--|
| 1.2   | Analyte detected above laboratory method detection limits (MDLs).                          |
| <5.0  | Analyte "Not-Detected" above MDLs.   |
| 1,300 | Analyte exceeds Residential Drinking Water Protection Criteria.                            |
| 3,800 | Analyte exceeds Nonresidential Drinking Water Protection Criteria.                         |
| 2.0   | Analyte exceeds Groundwater Surface Water Interface Protection Criteria.                   |
| 4,200 | Analyte exceeds Residential Groundwater Volatilization to Indoor Air Protection (VIAP).    |
| 4,200 | Analyte exceeds Nonresidential Groundwater Volatilization to Indoor Air Protection (VIAP). |
| 4,240 | Analyte exceeds Water Solubility.  |
| --    | No criteria developed.   |
| NA    | Sample not analyzed for this analyte.  |

Analyses were conducted at Pace Analytical (PACE) in Indianapolis, Indiana.  
 Polynuclear aromatic hydrocarbons (PNAs) were analyzed by EPA Method 8270 SIM 40E.  
 EGLE = Michigan Department of Environment, Great Lakes, and Energy.  
 VIAP = Volatilization to Indoor Air Pathway Screening Levels.  
 Notes in parentheses and standard abbreviations from Part 201 Rules 299.1 through 299.50, dated June 25, 2018.  
 VIAP screening levels based on shallow groundwater (< 10 feet below ground surface) for residential; groundwater not in contact (> 5 feet below ground surface) for nonresidential, based on EGLE VIAP Screening Levels, dated September 4, 2020.





**Table 2C - Summary of Groundwater Analytical Results - Metals**  
**Former Hayes Lemmerz Site**  
**W. Eight Mile Road, Ferndale, Oakland County, Michigan**

| CAS Number  | Aluminum  | Antimony  | Arsenic   | Barium    | Beryllium | Boron     | Calcium | Cadmium   | Chromium   | Cobalt    | Copper    | Cyanide | Iron      | Lead      | Magnesium | Manganese | Mercury   | Molybdenum | Nickel    | Potassium | Selenium  | Silver    | Sodium     | Strontium | Tetraethyl lead | Thallium  | Titanium  | Vanadium  | Zinc      |    |
|---|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|------------|-----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|------------|-----------|-----------------|-----------|-----------|-----------|-----------|----|
|   | 7429-90-5 | 7440-36-0 | 7440-38-2 | 7440-39-3 | 7440-41-7 | 7440-42-8 | --      | 7440-43-9 | 16065-83-1 | 7440-48-4 | 7440-50-8 | 57-12-5 | 7439-89-6 | 7439-92-1 | 7439-95-4 | 7439-96-5 | 7439-97-6 | 7439-98-7  | 7440-02-0 | 7440-09-7 | 7782-49-2 | 7440-22-4 | 17341-25-2 | 7440-26-4 | 78-00-2         | 7440-28-0 | 7440-32-6 | 7440-62-2 | 7440-66-6 |    |
| Residential Drinking Water Criteria   | 50        | 6         | 10        | 2,000     | 4         | 500       | --      | 5         | 100        | 40        | 1,000     | 200     | 300       | 4         | 400,000   | 50        | 2         | 73         | 100       | --        | 50        | 34        | 230,000    | 4,600     | --              | 2         | --        | 4.5       | 2,400     |    |
| Nonresidential Drinking Water Criteria                                      | 50        | 6         | 10        | 2,000     | 4         | 500       | --      | 5         | 100        | 100       | 1,000     | 200     | 300       | 4         | 1,100,000 | 50        | 2         | 210        | 100       | --        | 50        | 98        | 350,000    | 13,000    | --              | 2         | --        | 62        | 5,000     |    |
| Groundwater Surface Water Interface Criteria                                | NA        | 130       | 10        | (G)       | (G)       | 7,200     | --      | (G,X)     | (G,X)      | 100       | (G)       | 5.2     | NA        | (G,X)     | NA        | (G,X)     | 0.0013    | 3,200      | (G)       | --        | 5         | 0.2; 0.06 | --         | 21,000    | --              | 3.7       | --        | 27        | (G)       |    |
| Residential Volatilization to Indoor Air Pathway Screening Levels (VIAP)    | --        | --        | --        | --        | --        | --        | --      | --        | --         | --        | --        | --      | --        | --        | --        | --        | 0.088     | --         | --        | --        | --        | --        | --         | --        | --              | --        | --        | --        | --        | -- |
| Nonresidential Volatilization to Indoor Air Pathway Screening Levels (VIAP) | --        | --        | --        | --        | --        | --        | --      | --        | --         | --        | --        | --      | --        | --        | --        | --        | 3.7       | --         | --        | --        | --        | --        | --         | --        | --              | --        | --        | --        | --        | -- |

| Well ID | Screen Interval (feet) | Sample Date | Reported in micrograms per liter (ug/L) |          |         |        |           |       |         |         |          |        |        |         |        |      |           |           |         |            |        |           |          |        |        |           |                 |          |          |          |       |    |    |    |    |    |    |    |
|---------|------------------------|-------------|---|----------|---------|--------|-----------|-------|---------|---------|----------|--------|--------|---------|--------|------|-----------|-----------|---------|------------|--------|-----------|----------|--------|--------|-----------|-----------------|----------|----------|----------|-------|----|----|----|----|----|----|----|
|         |                        |             | Aluminum                                | Antimony | Arsenic | Barium | Beryllium | Boron | Calcium | Cadmium | Chromium | Cobalt | Copper | Cyanide | Iron   | Lead | Magnesium | Manganese | Mercury | Molybdenum | Nickel | Potassium | Selenium | Silver | Sodium | Strontium | Tetraethyl lead | Thallium | Titanium | Vanadium | Zinc  |    |    |    |    |    |    |    |
| MW-101  | 7.5' - 12.5'           | 4/8/2020    | NA                                      | NA       | <5.0    | <100   | NA        | NA    | NA      | <1.0    | <10.0    | NA     | NA     | NA      | NA     | NA   | NA        | NA        | <3.0    | NA         | NA     | NA        | NA       | NA     | NA     | NA        | NA              | NA       | NA       | NA       | NA    | NA | NA | NA |    |    |    |    |
| MW-102  | 8' - 13'               | 4/8/2020    | NA                                      | NA       | <5.0    | <100   | NA        | NA    | NA      | <1.0    | <10.0    | NA     | NA     | NA      | NA     | NA   | NA        | NA        | <3.0    | NA         | NA     | NA        | NA       | NA     | NA     | NA        | NA              | NA       | NA       | NA       | NA    | NA | NA | NA | NA |    |    |    |
| MW-103  | 8' - 13'               | 4/8/2020    | NA                                      | NA       | <5.0    | <100   | NA        | NA    | NA      | <1.0    | <10.0    | NA     | NA     | NA      | NA     | NA   | NA        | NA        | <3.0    | NA         | NA     | NA        | NA       | NA     | NA     | NA        | NA              | NA       | NA       | NA       | NA    | NA | NA | NA | NA | NA |    |    |
| MW-104  | 15' - 20'              | 4/8/2020    | NA                                      | NA       | <5.0    | <100   | NA        | NA    | NA      | <1.0    | <10.0    | NA     | NA     | NA      | NA     | NA   | NA        | NA        | <3.0    | NA         | NA     | NA        | NA       | NA     | NA     | NA        | NA              | NA       | NA       | NA       | NA    | NA | NA | NA | NA | NA |    |    |
| MW-105  | 9' - 14'               | 4/8/2020    | NA                                      | NA       | <5.0    | <100   | NA        | NA    | NA      | <1.0    | <10.0    | NA     | NA     | NA      | NA     | NA   | NA        | NA        | <3.0    | NA         | NA     | NA        | NA       | NA     | NA     | NA        | NA              | NA       | NA       | NA       | NA    | NA | NA | NA | NA | NA |    |    |
| MW-106  | 7.5' - 12.5'           | 4/8/2020    | NA                                      | NA       | <5.0    | 135    | NA        | NA    | NA      | <1.0    | <10.0    | NA     | NA     | NA      | NA     | NA   | NA        | NA        | <3.0    | NA         | NA     | NA        | NA       | NA     | NA     | NA        | NA              | NA       | NA       | NA       | NA    | NA | NA | NA | NA | NA |    |    |
| MW-107  | 7' - 12'               | 4/8/2020    | NA                                      | NA       | <5.0    | <100   | NA        | NA    | NA      | <1.0    | <10.0    | NA     | NA     | NA      | NA     | NA   | NA        | NA        | <3.0    | NA         | NA     | NA        | NA       | NA     | NA     | NA        | NA              | NA       | NA       | NA       | NA    | NA | NA | NA | NA | NA |    |    |
| MW-108  | 5' - 10'               | 4/8/2020    | NA                                      | NA       | <5.0    | <100   | NA        | NA    | NA      | <1.0    | <10.0    | NA     | NA     | NA      | NA     | NA   | NA        | NA        | <3.0    | NA         | NA     | NA        | NA       | NA     | NA     | NA        | NA              | NA       | NA       | NA       | NA    | NA | NA | NA | NA | NA |    |    |
| MW-109  | 5' - 10'               | 4/8/2020    | NA                                      | NA       | <5.0    | <100   | NA        | NA    | NA      | <1.0    | <10.0    | NA     | NA     | NA      | NA     | NA   | NA        | NA        | <3.0    | NA         | NA     | NA        | NA       | NA     | NA     | NA        | NA              | NA       | NA       | NA       | NA    | NA | NA | NA | NA | NA | NA |    |
| MW-110  | 5' - 10'               | 4/9/2020    | NA                                      | NA       | <5.0    | <100   | NA        | NA    | NA      | <1.0    | <10.0    | NA     | NA     | NA      | NA     | NA   | NA        | NA        | <3.0    | NA         | NA     | NA        | NA       | NA     | NA     | NA        | NA              | NA       | NA       | NA       | NA    | NA | NA | NA | NA | NA | NA |    |
| MW-111  | 4' - 9'                | 4/9/2020    | NA                                      | NA       | <5.0    | <100   | NA        | NA    | NA      | <1.0    | <10.0    | NA     | NA     | NA      | NA     | NA   | NA        | NA        | <3.0    | NA         | NA     | NA        | NA       | NA     | NA     | NA        | NA              | NA       | NA       | NA       | NA    | NA | NA | NA | NA | NA | NA |    |
| MW-112  | 4' - 9'                | 4/9/2020    | NA                                      | NA       | <5.0    | <100   | NA        | NA    | NA      | <1.0    | <10.0    | NA     | NA     | NA      | NA     | NA   | NA        | NA        | <3.0    | NA         | NA     | NA        | NA       | NA     | NA     | NA        | NA              | NA       | NA       | NA       | NA    | NA | NA | NA | NA | NA | NA |    |
| MW-113  | 8' - 13'               | 4/9/2020    | NA                                      | NA       | <5.0    | <100   | NA        | NA    | NA      | <1.0    | <10.0    | NA     | NA     | NA      | NA     | NA   | NA        | NA        | <3.0    | NA         | NA     | NA        | NA       | NA     | NA     | NA        | NA              | NA       | NA       | NA       | NA    | NA | NA | NA | NA | NA | NA |    |
| MW-114  | 8' - 13'               | 4/9/2020    | NA                                      | NA       | 10.8    | <100   | NA        | NA    | NA      | <1.0    | <10.0    | NA     | NA     | NA      | NA     | NA   | NA        | NA        | <3.0    | NA         | NA     | NA        | NA       | NA     | NA     | NA        | NA              | NA       | NA       | NA       | NA    | NA | NA | NA | NA | NA | NA |    |
| MW-115  | 7.5' - 12.5'           | 4/9/2020    | NA                                      | NA       | <5.0    | 106    | NA        | NA    | NA      | <1.0    | <10.0    | NA     | NA     | NA      | NA     | NA   | NA        | NA        | <3.0    | NA         | NA     | NA        | NA       | NA     | NA     | NA        | NA              | NA       | NA       | NA       | NA    | NA | NA | NA | NA | NA | NA |    |
| MW-116  | 8' - 13'               | 4/9/2020    | NA                                      | NA       | <5.0    | <100   | NA        | NA    | NA      | <1.0    | <10.0    | NA     | NA     | NA      | NA     | NA   | NA        | NA        | <3.0    | NA         | NA     | NA        | NA       | NA     | NA     | NA        | NA              | NA       | NA       | NA       | NA    | NA | NA | NA | NA | NA | NA | NA |
| MW-117  | 7.5' - 12.5'           | 4/9/2020    | NA                                      | NA       | <5.0    | <100   | NA        | NA    | NA      | <1.0    | <10.0    | NA     | NA     | NA      | NA     | NA   | NA        | NA        | <3.0    | NA         | NA     | NA        | NA       | NA     | NA     | NA        | NA              | NA       | NA       | NA       | NA    | NA | NA | NA | NA | NA | NA | NA |
| MW-118  | 11' - 16'              | 4/9/2020    | NA                                      | NA       | <5.0    | <100   | NA        | NA    | NA      | <1.0    | <10.0    | NA     | NA     | NA      | NA     | NA   | NA        | NA        | <3.0    | NA         | NA     | NA        | NA       | NA     | NA     | NA        | NA              | NA       | NA       | NA       | NA    | NA | NA | NA | NA | NA | NA | NA |
| MW-119  | 5' - 10'               | 4/23/2020   | NA                                      | NA       | <5.0    | <100   | NA        | NA    | NA      | <1.0    | <10.0    | NA     | NA     | NA      | NA     | NA   | NA        | NA        | <3.0    | NA         | NA     | NA        | NA       | NA     | NA     | NA        | NA              | NA       | NA       | NA       | NA    | NA | NA | NA | NA | NA | NA |    |
| MW-120  | 3' - 8'                | 4/23/2020   | NA                                      | NA       | <5.0    | <100   | NA        | NA    | NA      | <1.0    | <10.0    | NA     | NA     | NA      | NA     | NA   | NA        | NA        | <3.0    | NA         | NA     | NA        | NA       | NA     | NA     | NA        | NA              | NA       | NA       | NA       | NA    | NA | NA | NA | NA | NA | NA |    |
| MW-121  | 8' - 13'               | 4/23/2020   | NA                                      | NA       | <5.0    | <100   | NA        | NA    | NA      | <1.0    | <10.0    | NA     | NA     | NA      | NA     | NA   | NA        | NA        | <3.0    | NA         | NA     | NA        | NA       | NA     | NA     | NA        | NA              | NA       | NA       | NA       | NA    | NA | NA | NA | NA | NA | NA | NA |
| MW-122  | 5' - 10'               | 6/24/2020   | 1,130                                   | <2.0     | <5.0    | <100   | <1.0      | <300  | 106,000 | <1.0    | <10.0    | <20.0  | 9.2    | <5.0    | 1,940  | <3.0 | 16,800    | <50.0     | 0.15 J  | <50.0      | <20.0  | 15,700    | <5.0     | <20.0  | 14,100 | <1000     | NA              | <2.0     | 239      | 10.6     | <50.0 |    |    |    |    |    |    |    |
| MW-123  | 5' - 10'               | 6/23/2020   | 9,930                                   | <2.0     | <5.0    | 283    | <1.0      | <300  | 119,000 | <1.0    | 25.5     | <20.0  | 17.8   | NA      | 10,800 | 18.8 | 18,300    | 218       | 0.27    | <50.0      | <20.0  | 63,600    | <5.0     | <20.0  | 59,300 | <1000     | NA              | <2.0     | 436      | 33.5     | 342   |    |    |    |    |    |    |    |
| MW-124  | 7' - 12'               | 6/23/2020   | 784                                     | <2.0     | <5.0    | <100   | <1.0      | <300  | 103,000 | <1.0    | <10.0    | <20.0  | 8.7    | NA      | 1,290  | <3.0 | 14,600    | 781       | <0.12   | <50.0      | <20.0  | 1,940     | <5.0     | <20.0  | 21,500 | <1000     | NA              | <2.0     | 221      | <4.0     | <50.0 |    |    |    |    |    |    |    |
| MW-125  | 8' - 13'               | 6/23/2020   | 516                                     | <2.0     | <5.0    | <100   | <1.0      | <300  | 107,000 | <1.0    | <10.0    | <20.0  | <4.0   | NA      | 727    | <3.0 | 15,600    | 69.9      | <0.12   | <50.0      | <20.0  | 17,100    | <5.0     | <20.0  | 12,900 | <1000     | <0.87           | <2.0     | 212      | <4.0     | <50.0 |    |    |    |    |    |    |    |
| MW-126  | 8.5' - 13.5'           | 6/23/2020   | 376                                     | <2.0     | <5.0    | <100   | <1.0      | 590   | 181,000 | <1.0    | <10.0    | <20.0  | <4.0   | NA      | 1,270  | <3.0 | 13,900    | 251       | <0.12   | <50.0      | <20.0  | 36,900    | <5.0     | <20.0  | 62,300 | <1000     | NA              | <2.0     | 364      | 11.1     | <50.0 |    |    |    |    |    |    |    |
| MW-127  | 8' - 13'               | 6/24/2020   | 1,530                                   | <2.0     | <5.0    | <100   | <1.0      | <300  | 163,000 | <1.0    | <10.0    | <20.0  | 6.8    | <5.0    | 2,000  | 3.4  | 22,900    | 422       | <0.12   | <50.0      | <20.0  | 11,300    | <5.0     | <20.0  | 33,200 | <1000     | NA              | <2.0     | 352      | 4.5      | <50.0 |    |    |    |    |    |    |    |
| MW-128  | 8' - 13'               | 6/24/2020   | 204                                     | <2.0     | <5.0    | 128    | <1.0      | 928   | 209,000 | <1.0    | <10.0    | <20.0  | 4.6    | <5.0    | 356    | <3.0 | 34,100    | 239       | <0.12   | <50.0      | <20.0  | 43,100    | <5.0     | <20.0  | 40,800 | <1000     | NA              | <2.0     | 412      | <4.0     | <50.0 |    |    |    |    |    |    |    |
| MW-129  | 8' - 13'               | 6/24/2020   | 461                                     | <2.0     | 6.5     | <100   | <1.0      | 583   | 112,000 | <1.0    | <10.0    | <20.0  | 11.4   | <5.0    | 636    | <3.0 | 5,240     | 338       | <0.12   | 50.2       | <20.0  | 60,200    | <5.0     | <20.0  | 59,700 | <1000     | NA              | <2.0     | 228      | 7.2      | <50.0 |    |    |    |    |    |    |    |
| MW-130  | 5' - 10'               | 6/23/2020   | 462                                     | <2.0     | <5.0    | <100   | <1.0      | <300  | 102,000 | <1.0    | <10.0    | <20.0  | <4.0   | NA      | 710    | 3.2  | 17,000    | 273       | <0.12   | <50.0      | <20.0  | 7,410     | <5.0     | <20.0  | 36,000 | <1000     | <0.86           | <2.0     | 208      | <4.0     | <50.0 |    |    |    |    |    |    |    |
| MW-131  | 5' - 10'               | 6/24/2020   | 2,400                                   | <2.0     | <5.0    | <100   | <1.0      | <300  | 70,500  |         |          |        |        |         |        |      |           |           |         |            |        |           |          |        |        |           |                 |          |          |          |       |    |    |    |    |    |    |    |





**Table 2D - Summary of Groundwater Analytical Results - PCBs**  
**Former Hayes Lemmerz Site**  
**W. Eight Mile Road, Ferndale, Oakland County, Michigan**

| EGLE Part 201 Generic Cleanup Criteria and Screening Levels, dated January 10, 2018; GSI Criteria Updated June 25, 2018 (ug/L); VIAP Screening Levels Updated September 4, 2020. |                        |             | PCB-1016 (Aroclor 1016)                 | PCB-1221 (Aroclor 1221) | PCB-1232 (Aroclor 1232) | PCB-1242 (Aroclor 1242) | PCB-1248 (Aroclor 1248) | PCB-1254 (Aroclor 1254) | PCB-1260 (Aroclor 1260) | PCB-1262 (Aroclor 1262) | PCB-1268 (Aroclor 1268) |
|--|------------------------|-------------|---|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Residential Drinking Water Criteria  |                        |             | 0.5                                     | 0.5                     | 0.5                     | 0.5                     | 0.5                     | 0.5                     | 0.5                     | 0.5                     | 0.5                     |
| Nonresidential Drinking Water Criteria   |                        |             | 0.5                                     | 0.5                     | 0.5                     | 0.5                     | 0.5                     | 0.5                     | 0.5                     | 0.5                     | 0.5                     |
| Groundwater Surface Water Interface (GSI) Criteria   |                        |             | 0.2                                     | 0.2                     | 0.2                     | 0.2                     | 0.2                     | 0.2                     | 0.2                     | 0.2                     | 0.2                     |
| Residential Groundwater VIAP   |                        |             | 0.031                                   | 0.031                   | 0.031                   | 0.031                   | 0.031                   | 0.031                   | 0.031                   | 0.031                   | 0.031                   |
| Nonresidential Groundwater VIAP  |                        |             | 0.97                                    | 0.97                    | 0.97                    | 0.97                    | 0.97                    | 0.97                    | 0.97                    | 0.97                    | 0.97                    |
| Water Solubility   |                        |             | 44.7                                    | 44.7                    | 44.7                    | 44.7                    | 44.7                    | 44.7                    | 44.7                    | 44.7                    | 44.7                    |
| Well ID  | Screen Interval (feet) | Sample Date | Reported in micrograms per liter (ug/L) |                         |                         |                         |                         |                         |                         |                         |                         |
| MW-101   | 7.5' - 12.5'           | 4/8/2020    | NA                                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      |
| MW-102   | 8' - 13'               | 4/8/2020    | NA                                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      |
| MW-103   | 8' - 13'               | 4/8/2020    | NA                                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      |
| MW-104   | 15' - 20'              | 4/8/2020    | NA                                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      |
| MW-105   | 9' - 14'               | 4/8/2020    | NA                                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      |
| MW-106   | 7.5' - 12.5'           | 4/8/2020    | NA                                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      |
| MW-107   | 7' - 12'               | 4/8/2020    | NA                                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      |
| MW-108   | 5' - 10'               | 4/8/2020    | NA                                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      |
| MW-109   | 5' - 10'               | 4/8/2020    | NA                                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      |
| MW-110   | 5' - 10'               | 4/9/2020    | NA                                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      |
| MW-111   | 4' - 9'                | 4/9/2020    | NA                                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      |
| MW-112   | 4' - 9'                | 4/9/2020    | NA                                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      |
| MW-113   | 8' - 13'               | 4/9/2020    | NA                                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      |
| MW-114   | 8' - 13'               | 4/9/2020    | NA                                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      |
| MW-115   | 7.5' - 12.5'           | 4/9/2020    | NA                                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      |
| MW-116   | 8' - 13'               | 4/9/2020    | NA                                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      |
| MW-117   | 7.5' - 12.5'           | 4/9/2020    | NA                                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      |
| MW-118   | 11' - 16'              | 4/9/2020    | NA                                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      |
| MW-119   | 5' - 10'               | 4/23/2020   | NA                                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      |
| MW-120   | 3' - 8'                | 4/23/2020   | NA                                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      |
| MW-121   | 8' - 13'               | 4/23/2020   | NA                                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      |
| MW-122   | 5' - 10'               | 6/24/2020   | NA                                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      |
| MW-123   | 5' - 10'               | 6/23/2020   | <0.19                                   | <0.19                   | <0.19                   | <0.19                   | <0.19                   | <0.19                   | <0.19                   | <0.19                   | <0.19                   |
| MW-124   | 7' - 12'               | 6/23/2020   | NA                                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      |
| MW-125   | 8' - 13'               | 6/23/2020   | <0.18                                   | <0.18                   | <0.18                   | <0.18                   | <0.18                   | <0.18                   | <0.18                   | <0.18                   | <0.18                   |
| MW-126   | 8.5' - 13.5'           | 6/23/2020   | NA                                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      |
| MW-127   | 8' - 13'               | 6/24/2020   | <0.19                                   | <0.19                   | <0.19                   | <0.19                   | <0.19                   | <0.19                   | <0.19                   | <0.19                   | <0.19                   |
| MW-128   | 8' - 13'               | 6/24/2020   | <0.19                                   | <0.19                   | <0.19                   | <0.19                   | <0.19                   | <0.19                   | <0.19                   | <0.19                   | <0.19                   |
| MW-129   | 8' - 13'               | 6/24/2020   | NA                                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      |
| MW-130   | 5' - 10'               | 6/23/2020   | <0.18                                   | <0.18                   | <0.18                   | <0.18                   | <0.18                   | <0.18                   | <0.18                   | <0.18                   | <0.18                   |
| MW-131   | 5' - 10'               | 6/24/2020   | NA                                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      |
| MW-132   | 10' - 15'              | 8/13/2020   | <0.19                                   | <0.19                   | <0.19                   | <0.19                   | <0.19                   | <0.19                   | <0.19                   | <0.19                   | <0.19                   |
| MW-133   | 10' - 15'              | 8/13/2020   | NA                                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      | NA                      |

Notes:

|       |  |
|-------|--|
| 5.0   | Analyte detected above laboratory method detection limits (MDLs).  |
| <5.0  | Analyte "Not-Detected" above MDLs.   |
| 0.5   | Analyte exceeds Residential Drinking Water Protection Criteria.  |
| 0.5   | Analyte exceeds Nonresidential Drinking Water Protection Criteria.                                       |
| 0.2   | Analyte exceeds Groundwater Surface Water Interface Protection Criteria.                                 |
| 0.031 | Analyte exceeds Residential Groundwater Volatilization to Indoor Air Pathway Screening Levels (VIAP).    |
| 0.97  | Analyte exceeds Nonresidential Groundwater Volatilization to Indoor Air Pathway Screening Levels (VIAP). |
| 44.7  | Analyte exceeds Water Solubility Criteria.   |
| NA    | Sample not analyzed for this analyte.  |

Analyses were conducted at Pace Analytical (PACE) in Indianapolis, Indiana.

PCBs were analyzed by EPA Method 8082A.

EGLE = Michigan Department of Environment, Great lakes, and Energy.

Notes in parentheses and standard abbreviations from Part 201 Rules 299.1 through 299.50, dated June 25, 2018.

VIAP screening levels based on shallow groundwater (< 10 feet below ground surface) for residential; groundwater not in contact

(> 5 feet below ground surface) for nonresidential, based on EGLE VIAP Screening Levels, dated September 4, 2020.

**Table 2E - Summary of Groundwater Analytical Results - Perfluorinated Compounds**  
**Former Hayes Lemmerz Site**  
**W. Eight Mile Road, Ferndale, Oakland County, Michigan**

| EGLE Part 201 Generic Cleanup Criteria and Screening Levels, dated January 10, 2018; GSI Criteria Updated June 25, 2018 (ng/L) |                        |             | PFBA                                   | PFPeA     | PFHxA    | PFHpA    | PFOA     | PFNA     | PFDA     | PFUnA     | PFDoA    | PFTDA      | PFTeDA   | PFOSA    | N-FeFOSAA | N-MeFOSAA | PFBS     | PFPeS     | PFHxS    | PFHpS    | PFOS      | PFNS       | PFDS     | 4:2FTS      | 6:2FTS     | 8:2FTS     |
|--|------------------------|-------------|--|-----------|----------|----------|----------|----------|----------|-----------|----------|------------|----------|----------|-----------|-----------|----------|-----------|----------|----------|-----------|------------|----------|-------------|------------|------------|
| CAS number   |                        |             | 375-22-4                               | 2706-90-3 | 307-24-4 | 375-85-9 | 335-67-1 | 375-95-1 | 335-76-2 | 2058-94-8 | 307-55-1 | 72629-94-8 | 376-06-7 | 754-91-6 | 2991-50-6 | 2355-31-9 | 375-73-5 | 2706-91-4 | 355-46-4 | 375-92-8 | 1763-23-1 | 68259-12-1 | 335-77-3 | 757124-72-4 | 27619-97-2 | 39108-34-4 |
| PFAS Drinking Water Standard (ng/L)  |                        |             | --                                     | --        | 400,000  | --       | 8        | 6        | --       | --        | --       | --         | --       | --       | --        | --        | 420      | --        | 51       | --       | 16        | --         | --       | --          | --         | --         |
| Groundwater Surface Water Interface Criteria (ng/L)  |                        |             | --                                     | --        | --       | --       | 12,000   | --       | --       | --        | --       | --         | --       | --       | --        | --        | --       | --        | --       | --       | 12        | --         | --       | --          | --         | --         |
| Water Solubility (ng/L)  |                        |             | --                                     | --        | --       | --       | 9.50e9   | --       | --       | --        | --       | --         | --       | --       | --        | --        | --       | --        | --       | --       | 3100.00   | --         | --       | --          | --         | --         |
| Well ID  | Screen Interval (feet) | Sample Date | Reported in nanograms per Liter (ng/L) |           |          |          |          |          |          |           |          |            |          |          |           |           |          |           |          |          |           |            |          |             |            |            |
| MW-101   | 7.5 - 12.5'            | 4/14/2020   | 3.5                                    | <0.26     | <0.37    | <0.44    | <0.43    | <0.58    | <0.67    | <0.55     | <0.40    | <0.44      | <0.40    | <0.24    | <0.92     | <0.44     | 5.2      | <0.37     | 4.7      | <0.46    | <0.39     | <0.46      | <0.33    | <0.58       | <0.93      | <0.77      |
| MW-102   | 8 - 13'                | 4/14/2020   | 12                                     | 26        | 24       | 6.6      | 7.8      | <0.57    | <0.66    | <0.54     | <0.40    | <0.44      | <0.40    | <0.23    | <0.90     | <0.43     | 5.2      | 2.1       | 5.1      | <0.45    | 2.6       | <0.45      | <0.32    | <0.57       | <0.92      | <0.75      |
| MW-103   | 8 - 13'                | 4/14/2020   | 4.6                                    | 4.7       | 5.6      | 3.2      | 7.8      | <0.59    | <0.68    | <0.55     | <0.41    | <0.45      | <0.41    | <0.24    | <0.93     | <0.45     | 3.9      | <0.37     | 7.0      | <0.46    | 13        | <0.46      | <0.33    | <0.59       | 3.4        | <0.77      |
| MW-104   | 15 - 20'               | 4/14/2020   | 8.0                                    | 3.2       | 4.6      | 3.4      | 6.2      | <0.57    | <0.66    | <0.54     | <0.39    | <0.43      | <0.39    | <0.23    | <0.90     | <0.43     | 4.8      | <0.36     | 10       | <0.45    | <0.38     | <0.45      | <0.32    | <5.7        | <0.91      | <0.75      |
| MW-105   | 9 - 14'                | 4/14/2020   | <0.31                                  | <0.27     | <0.37    | <0.45    | 4.5      | <0.59    | <0.69    | <0.56     | <0.41    | <0.45      | <0.41    | <0.24    | <0.94     | <0.45     | 3.2      | <0.37     | 5.6      | <0.47    | 2.4       | <0.47      | <0.33    | <0.59       | <0.95      | <0.78      |
| MW-106   | 7.5 - 12.5'            | 4/15/2020   | 11                                     | 8.0       | 10       | 5.4      | 16       | <0.59    | <0.68    | <0.55     | <0.41    | <0.45      | <0.41    | <0.24    | <0.93     | <0.45     | 5.8      | <0.37     | 9.5      | <0.46    | <0.40     | <0.46      | <0.33    | <0.59       | <0.94      | <0.77      |
| MW-107   | 7 - 12'                | 4/15/2020   | 8.9                                    | 5.3       | 7.2      | 5.1      | 11       | <0.58    | <0.67    | <0.55     | <0.40    | <0.45      | <0.40    | <0.24    | <0.92     | <0.44     | 3.9      | <0.37     | 2.5      | <0.46    | <0.39     | <0.46      | <0.33    | <0.58       | <0.94      | <0.77      |
| MW-108   | 5 - 10'                | 4/15/2020   | 7.9                                    | 2.5       | 3.3      | <0.45    | 5.0      | <0.59    | <0.69    | <0.56     | <0.41    | <0.45      | <0.41    | <0.24    | <0.94     | <0.45     | 3.5      | <0.37     | <0.38    | <0.47    | <0.40     | <0.47      | <0.33    | <0.59       | <0.95      | <0.78      |
| MW-109   | 5 - 10'                | 4/15/2020   | 10                                     | 17        | 26       | 26       | 19       | <0.60    | <0.69    | <0.57     | <0.42    | <0.46      | <0.42    | <0.25    | <0.95     | <0.46     | 4.3      | <0.38     | <0.39    | <0.47    | <0.40     | <0.47      | <0.34    | <0.60       | 120        | <0.79      |
| MW-110   | 5 - 10'                | 4/15/2020   | 5.5                                    | 4.3       | 5.7      | 5.8      | 7.4      | <0.59    | <0.68    | <0.55     | <0.41    | <0.45      | <0.41    | <0.24    | <0.93     | <0.45     | 4.3      | <0.37     | <0.38    | <0.46    | <0.39     | <0.46      | <0.33    | <0.59       | 3.1        | <0.77      |
| MW-111   | 4 - 9'                 | 4/16/2020   | 3.0                                    | <0.26     | <0.36    | <0.44    | 4.9      | <0.57    | <0.66    | <0.54     | <0.39    | <0.44      | <0.39    | <0.23    | <0.90     | <0.43     | 3.5      | <0.36     | <0.37    | <0.45    | <0.38     | <0.45      | <0.32    | <0.57       | <0.92      | <0.75      |
| MW-112   | 4 - 9'                 | 4/16/2020   | 19                                     | 2.7       | 3.8      | 2.8      | 42       | <0.58    | <0.67    | <0.55     | <0.40    | <0.44      | <0.40    | <0.24    | <0.92     | <0.44     | 7.0      | <0.36     | 3.9      | <0.46    | 7.7       | <0.46      | <0.32    | <0.58       | 5.5        | <0.76      |
| MW-113   | 8 - 13'                | 4/16/2020   | <0.30                                  | <0.26     | <0.36    | <0.44    | <0.42    | <0.57    | <0.66    | <0.54     | <0.39    | <0.44      | <0.39    | <0.23    | <0.90     | <0.43     | <0.20    | <0.36     | <0.37    | <0.45    | <0.38     | <0.45      | <0.32    | <0.57       | <0.92      | <0.75      |
| MW-114   | 8 - 13'                | 4/16/2020   | 8.1                                    | <0.26     | 5.1      | <0.44    | 3.8      | <0.58    | <0.66    | <0.54     | <0.40    | <0.44      | <0.40    | <0.24    | <0.91     | <0.44     | 2.5      | <0.36     | 10       | <0.45    | 2.7       | <0.45      | <0.32    | <5.8        | <9.2       | <7.6       |
| MW-115   | 7.5 - 12.5'            | 4/16/2020   | 4.4                                    | <0.53     | <0.73    | <0.89    | <0.85    | <1.2     | <1.3     | <1.1      | <0.81    | <0.89      | <0.81    | <0.48    | <1.8      | <0.89     | <0.40    | <0.73     | <0.75    | <0.92    | <0.79     | <0.92      | <0.65    | <1.2        | 4.8        | <1.5       |
| MW-116   | 8 - 13'                | 6/24/2020   | 6.2                                    | <0.51     | 4.1      | <0.86    | 5.6      | <1.1     | <1.3     | <1.1      | <0.78    | <0.86      | <0.78    | <0.46    | <1.8      | <0.86     | <0.39    | <0.71     | <0.73    | <0.89    | <0.76     | <0.89      | <0.63    | <1.1        | 74         | <15        |
| MW-117   | 7.5 - 12.5'            | 6/24/2020   | 5.0                                    | 4.3       | 4.4      | 3.4      | 6.1      | <0.59    | <0.69    | <0.56     | <0.41    | <0.45      | <0.41    | <0.24    | <0.94     | <0.45     | 10.0     | <0.37     | 3.5      | <0.47    | <0.40     | <0.47      | <0.33    | <0.59       | 33         | <0.78      |
| MW-118   | 11 - 16'               | 6/24/2020   | 5.5                                    | 2.3       | 2.4      | <0.44    | 5.8      | <0.58    | <0.67    | <0.55     | <0.40    | <0.44      | <0.40    | <0.24    | <0.92     | <0.44     | 5.7      | <0.36     | 4.2      | <0.46    | <0.39     | <0.46      | <0.32    | <0.58       | 13         | <0.76      |
| MW-119   | 5 - 10'                | 4/23/2020   | <0.30                                  | <0.26     | <0.36    | <0.44    | <0.42    | <0.57    | <0.66    | <0.54     | <0.40    | <0.44      | <0.40    | <0.23    | <0.91     | <0.44     | <0.20    | <0.36     | <0.37    | <0.45    | <0.39     | <0.45      | <0.32    | <0.57       | <0.92      | <0.75      |
| MW-120   | 3 - 8'                 | 4/23/2020   | 7.2                                    | <0.27     | <0.37    | <0.45    | 6.4      | <0.59    | <0.68    | <0.56     | <0.41    | <0.45      | <0.41    | <0.24    | <0.94     | <0.45     | 3.1      | <0.37     | <0.38    | <0.47    | <0.40     | <0.47      | <0.33    | <0.59       | <0.95      | <0.78      |
| MW-121   | 8 - 13'                | 4/23/2020   | 12                                     | 18        | 22       | 12       | 32       | <0.58    | <0.67    | <0.55     | <0.40    | <0.44      | <0.40    | <0.24    | <0.92     | <0.44     | 3.9      | <0.37     | 5.9      | <0.46    | <0.39     | <0.46      | <0.33    | <0.58       | 3.3        | <0.77      |
| MW-122   | 5' - 10'               | 6/24/2020   | 6.8                                    | 9.9       | 11.0     | 8.7      | 22       | <1.3     | <1.4     | <1.2      | <0.87    | <0.96      | <0.87    | <0.51    | <2.0      | <0.95     | 4.1      | <0.79     | 4.2      | <0.99    | <0.85     | <0.99      | <0.70    | <1.3        | 15         | <1.7       |
| MW-127   | 8' - 13'               | 6/24/2020   | 6.2                                    | <0.58     | 7.8      | 6.5      | 27       | <1.3     | <1.5     | <1.2      | <0.89    | <0.98      | <0.89    | <0.53    | <2.0      | <0.98     | <0.45    | <0.81     | 8.4      | <1.0     | 18        | <1.0       | <0.72    | <1.3        | 6.6        | <1.7       |
| MW-128   | 8' - 13'               | 6/24/2020   | 13                                     | 19        | 24       | 19       | 40       | 6.6      | <0.66    | <0.54     | <0.39    | <0.43      | <0.39    | <0.23    | <0.90     | <0.43     | 4.0      | <0.36     | 8.7      | 2.0      | 58        | <0.45      | <0.32    | <5.7        | <9.1       | <0.75      |
| MW-129   | 8' - 13'               | 6/24/2020   | 15                                     | 26        | 33       | 20       | 80       | 9.8      | <1.5     | <1.2      | <0.87    | <0.96      | <0.87    | <0.52    | <2.0      | <0.96     | <0.44    | <0.79     | 9.0      | <0.99    | 96        | <0.99      | <0.71    | <13         | <20        | <1.7       |
| MW-131   | 5' - 10'               | 6/24/2020   | 10                                     | 11        | 14       | 10       | 33       | 5.4      | <1.4     | <1.2      | <0.86    | <0.95      | <0.86    | <0.51    | <2.0      | <0.95     | 4.4      | <0.78     | 6.3      | <0.98    | 68        | <0.98      | 8.7      | <12         | 11         | <1.6       |
| MW-132   | 10' - 15'              | 8/14/2020   | 10                                     | 16        | 16       | 7.9      | 44       | <1.4     | <1.6     | <1.3      | <0.94    | <1.0       | <0.94    | <0.56    | <2.2      | <1.0      | 12.0     | <0.86     | 8.6      | <1.1     | 27        | <1.1       | <0.76    | <14         | <22        | <1.8       |
| MW-133   | 10' - 15'              | 8/14/2020   | 10                                     | 19        | 21       | 15       | 43       | <1.4     | <1.6     | <1.3      | <0.95    | <1.1       | <0.95    | <0.56    | <2.2      | <1.0      | <0.48    | <0.87     | 8.6      | <1.1     | 74        | <1.1       | <0.77    | <1.4        | <2.2       | <1.8       |

Notes:

|      |   |        |  |
|------|---|--------|--|
| 5    | Analyte detected above laboratory method detection limits (MDLs). | 12,000 | Analyte exceeds Groundwater Surface Water Interface Protection Criteria. |
| <5.0 | Analyte "Not-Detected" above MDLs.                                | 3.10   | Analyte exceeds Water Solubility.  |
| 8    | Analyte exceeds PFAS Drinking Water Standard.                     | --     | No criteria developed.   |

Analyses were conducted at Pace Analytical (PACE) in Minneapolis, Minnesota.

Perfluorinated compounds were analyzed using an isotope dilution based on Department of Defense (DoD) Quality Systems Manual (QSM) 5.1.1.  
 EGLE = Michigan Department of Environment, Great Lakes, and Energy.

**Table 3 - Analytical Results Summary: Soil Gas**  
**Former Hayes Lemmerz Site**  
**W. Eight Mile Road, Ferndale, Oakland County, Michigan**

| Lab Sample ID                  | Appendix D2 VI Shallow Soil Gas Screening Levels |             |                   |        | Non-Residential VIAP Soil Gas | L1119489-01 | L1119489-02 | L1119489-03 | L1119489-04 | L1119489-05 | L1119489-06 | L1119489-07 | Lab Sample ID    | Appendix D2 VI Shallow Soil Gas Screening Levels |           |                   |           | Non-Residential VIAP Soil Gas | L1119489-08 | L1119489-09 |        |
|--------------------------------|--|-------------|-------------------|--------|-------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------------|--|-----------|-------------------|-----------|-------------------------------|-------------|-------------|--------|
| Client Sample ID               | Analyte  | CAS No.     | Units             | Method |                               | A1          | A2          | A3          | A4          | B1          | B2          | B3          | Client Sample ID | Analyte  | CAS No.   | Units             | Method    |                               | B4          | C1          |        |
| Sample Depth                   | Sample Depth                                     | Sample Date | Sample Date       | Matrix | 7/15/2019                     | 7/15/2019   | 7/15/2019   | 7/15/2019   | 7/15/2019   | 7/15/2019   | 7/15/2019   | 7/15/2019   | Sample Depth     | Sample Date                                      | Matrix    | 7/15/2019         | 7/15/2019 |                               |             |             |        |
| Sample Date                    | Sample Date                                      | Matrix      | Matrix            | Matrix | Air                           | Air         | Air         | Air         | Air         | Air         | Air         | Air         | Sample Date      | Matrix   | Matrix    | Air               | Air       |                               |             |             |        |
| Matrix                         | Analyte  | CAS No.     | Units             | Method | NA                            | NA          | NA          | NA          | NA          | NA          | NA          | NA          | Matrix           | Analyte  | CAS No.   | Units             | Method    | NA                            | NA          |             |        |
| TPH (GC/MS) LOW FRACTION       | TPH (GC/MS) LOW FRACTION                         | 8006-61-9   | µg/M <sup>3</sup> | TO-15  | NA                            | NA          | 615         | 546         | 680         | 609         | 1040        | 537         | 1620             | TPH (GC/MS) LOW FRACTION                         | 8006-61-9 | µg/M <sup>3</sup> | TO-15     | NA                            | NA          | 1150        | 1100   |
| ACETONE                        | ACETONE  | 67-64-1     | µg/M <sup>3</sup> | TO-15  | 3400000                       | 1,000,000   | 20.5        | 6.41        | 39.9        | 68.8        | 13.4        | <5.94       | 32.1             | ACETONE  | 67-64-1   | µg/M <sup>3</sup> | TO-15     | 3400000                       | 1,000,000   | <5.94       | 13.3   |
| BENZENE                        | BENZENE  | 71-43-2     | µg/M <sup>3</sup> | TO-15  | 2200                          | 260         | 8.2         | 2.66        | 2.59        | 7.68        | 7.14        | <1.28       | <1.28            | BENZENE  | 71-43-2   | µg/M <sup>3</sup> | TO-15     | 2200                          | 260         | <1.28       | 3.01   |
| 2-BUTANONE (MEK)               | 2-BUTANONE (MEK)                                 | 78-93-3     | µg/M <sup>3</sup> | TO-15  | 2900000                       | 170,000     | <7.37       | <7.37       | <7.37       | <7.37       | <7.37       | <7.37       | <7.37            | 2-BUTANONE (MEK)                                 | 78-93-3   | µg/M <sup>3</sup> | TO-15     | 2900000                       | 170,000     | <7.37       | <7.37  |
| CARBON DISULFIDE               | CARBON DISULFIDE                                 | 75-15-0     | µg/M <sup>3</sup> | TO-15  | 410000                        | 36,000      | 2.57        | <1.24       | 4.9         | 4.64        | 16          | 4.52        | <1.24            | CARBON DISULFIDE                                 | 75-15-0   | µg/M <sup>3</sup> | TO-15     | 410000                        | 36,000      | 4.1         | 10.1   |
| CARBON TETRACHLORIDE           | CARBON TETRACHLORIDE                             | 56-23-5     | µg/M <sup>3</sup> | TO-15  | 3000                          | 360         | <2.52       | <2.52       | <2.52       | <2.52       | <2.52       | <2.52       | <2.52            | CARBON TETRACHLORIDE                             | 56-23-5   | µg/M <sup>3</sup> | TO-15     | 3000                          | 360         | 6.53        | <2.52  |
| CHLOROBENZENE                  | CHLOROBENZENE                                    | 108-90-7    | µg/M <sup>3</sup> | TO-15  | 41000                         | 2,600       | 6.89        | 6.94        | 4.28        | 8.28        | 9.08        | <1.85       | <1.85            | CHLOROBENZENE                                    | 108-90-7  | µg/M <sup>3</sup> | TO-15     | 41000                         | 2,600       | <1.85       | 6.2    |
| CHLORODIFLUOROMETHANE          | CHLORODIFLUOROMETHANE                            | 75-45-6     | µg/M <sup>3</sup> | TO-15  | NA                            | NA          | <1.42       | <1.42       | <1.42       | 1.59        | <1.42       | <1.42       | 1.52             | CHLORODIFLUOROMETHANE                            | 75-45-6   | µg/M <sup>3</sup> | TO-15     | NA                            | NA          | <1.42       | <1.42  |
| CHLOROETHANE                   | CHLOROETHANE                                     | 75-00-3     | µg/M <sup>3</sup> | TO-15  | 5800000                       | 200,000     | <1.06       | <1.06       | <1.06       | <1.06       | <1.06       | <1.06       | <1.06            | CHLOROETHANE                                     | 75-00-3   | µg/M <sup>3</sup> | TO-15     | 5800000                       | 200,000     | 1.29        | <1.06  |
| CHLOROFORM                     | CHLOROFORM                                       | 67-66-3     | µg/M <sup>3</sup> | TO-15  | 7600                          | 87          | <1.95       | <1.95       | <1.95       | <1.95       | <1.95       | <1.95       | <1.95            | CHLOROFORM                                       | 67-66-3   | µg/M <sup>3</sup> | TO-15     | 7600                          | 87          | 5.58        | <1.95  |
| CHLOROMETHANE                  | CHLOROMETHANE                                    | 74-87-3     | µg/M <sup>3</sup> | TO-15  | 29000                         | 4,600       | <0.826      | <0.826      | <0.826      | 0.864       | <0.826      | <0.826      | 0.919            | CHLOROMETHANE                                    | 74-87-3   | µg/M <sup>3</sup> | TO-15     | 29000                         | 4,600       | <0.826      | <0.826 |
| CYCLOHEXANE                    | CYCLOHEXANE                                      | 110-82-7    | µg/M <sup>3</sup> | TO-15  | 3500000                       | 310,000     | <1.38       | <1.38       | <1.38       | 1.49        | <1.38       | <1.38       | <1.38            | CYCLOHEXANE                                      | 110-82-7  | µg/M <sup>3</sup> | TO-15     | 3500000                       | 310,000     | <1.38       | <1.38  |
| 1,2-DICHLOROBENZENE            | 1,2-DICHLOROBENZENE                              | 95-50-1     | µg/M <sup>3</sup> | TO-15  | 180000                        | 15,000      | <2.40       | <2.40       | <2.40       | <2.40       | <2.40       | <2.40       | <2.40            | 1,2-DICHLOROBENZENE                              | 95-50-1   | µg/M <sup>3</sup> | TO-15     | 180000                        | 15,000      | <2.40       | <2.40  |
| 1,4-DICHLOROBENZENE            | 1,4-DICHLOROBENZENE                              | 106-46-7    | µg/M <sup>3</sup> | TO-15  | 2600                          | 510         | <2.40       | <2.40       | <2.40       | <2.40       | <2.40       | <2.40       | <2.40            | 1,4-DICHLOROBENZENE                              | 106-46-7  | µg/M <sup>3</sup> | TO-15     | 2600                          | 510         | <2.40       | <2.40  |
| DICHLORODIFLUOROMETHANE        | DICHLORODIFLUOROMETHANE                          | 75-71-8     | µg/M <sup>3</sup> | TO-15  | 29000000                      | 17,000      | 2.18        | 2.26        | 2.2         | 2.21        | 2.19        | 2.3         | 2.81             | DICHLORODIFLUOROMETHANE                          | 75-71-8   | µg/M <sup>3</sup> | TO-15     | 29000000                      | 17,000      | 2.51        | 2.46   |
| 1,1-DICHLOROETHANE             | 1,1-DICHLOROETHANE                               | 75-34-3     | µg/M <sup>3</sup> | TO-15  | 290000                        | 1,200       | <1.60       | <1.60       | <1.60       | <1.60       | <1.60       | <1.60       | <1.60            | 1,1-DICHLOROETHANE                               | 75-34-3   | µg/M <sup>3</sup> | TO-15     | 290000                        | 1,200       | <1.60       | <1.60  |
| 1,2-DICHLOROETHANE             | 1,2-DICHLOROETHANE                               | 107-06-2    | µg/M <sup>3</sup> | TO-15  | 700                           | 77          | <1.62       | <1.62       | <1.62       | <1.62       | <1.62       | <1.62       | <1.62            | 1,2-DICHLOROETHANE                               | 107-06-2  | µg/M <sup>3</sup> | TO-15     | 700                           | 77          | 2.55        | <1.62  |
| CIS-1,2-DICHLOROETHENE         | CIS-1,2-DICHLOROETHENE                           | 156-59-2    | µg/M <sup>3</sup> | TO-15  | 4100                          | 410         | <1.59       | <1.59       | <1.59       | <1.59       | <1.59       | <1.59       | <1.59            | CIS-1,2-DICHLOROETHENE                           | 156-59-2  | µg/M <sup>3</sup> | TO-15     | 4100                          | 410         | <1.59       | <1.59  |
| 1,2-DICHLOROTETRAFLUOROETHANE  | 1,2-DICHLOROTETRAFLUOROETHANE                    | 76-14-2     | µg/M <sup>3</sup> | TO-15  | NA                            | NA          | <2.80       | <2.80       | <2.80       | <2.80       | <2.80       | <2.80       | <2.80            | 1,2-DICHLOROTETRAFLUOROETHANE                    | 76-14-2   | µg/M <sup>3</sup> | TO-15     | NA                            | NA          | <2.80       | <2.80  |
| 1,1-DIFLUOROETHANE             | 1,1-DIFLUOROETHANE                               | 75-37-6     | µg/M <sup>3</sup> | TO-15  | NA                            | NA          | 60.6        | 3.7         | 192         | 263         | 3.14        | 3.2         | 5.83             | 1,1-DIFLUOROETHANE                               | 75-37-6   | µg/M <sup>3</sup> | TO-15     | NA                            | NA          | <1.08       | 4.38   |
| 1,4-DIOXANE                    | 1,4-DIOXANE                                      | 123-91-1    | µg/M <sup>3</sup> | TO-15  | NA                            | 400         | <1.44       | <1.44       | <1.44       | <1.44       | <1.44       | <1.44       | <1.44            | 1,4-DIOXANE                                      | 123-91-1  | µg/M <sup>3</sup> | TO-15     | NA                            | 400         | <1.44       | <1.44  |
| ETHANOL                        | ETHANOL  | 64-17-5     | µg/M <sup>3</sup> | TO-15  | NA                            | 630,000     | 40.5        | 23          | 32.9        | 60.2        | 30.7        | 6.42        | 18.5             | ETHANOL  | 64-17-5   | µg/M <sup>3</sup> | TO-15     | NA                            | 630,000     | 36.3        | 18.7   |
| ETHYL ACETATE                  | ETHYL ACETATE                                    | 141-78-6    | µg/M <sup>3</sup> | TO-15  | 1900000                       | 3,600       | 2.32        | <1.44       | 1.54        | 3.05        | <1.44       | <1.44       | <1.44            | ETHYL ACETATE                                    | 141-78-6  | µg/M <sup>3</sup> | TO-15     | 1900000                       | 3,600       | <1.44       | 1.7    |
| ETHYLBENZENE                   | ETHYLBENZENE                                     | 100-41-4    | µg/M <sup>3</sup> | TO-15  | 59000                         | 800         | 5.5         | 6.82        | 3.71        | 4.86        | 6.99        | 3.28        | 2.26             | ETHYLBENZENE                                     | 100-41-4  | µg/M <sup>3</sup> | TO-15     | 59000                         | 800         | 4.89        | 8.25   |
| 4-ETHYLTOLUENE                 | 4-ETHYLTOLUENE                                   | 622-96-8    | µg/M <sup>3</sup> | TO-15  | NA                            | NA          | <1.96       | 2.68        | <1.96       | <1.96       | 2.18        | <1.96       | 2.7              | 4-ETHYLTOLUENE                                   | 622-96-8  | µg/M <sup>3</sup> | TO-15     | NA                            | NA          | 2.97        | 3.13   |
| HEPTANE                        | HEPTANE  | 142-82-5    | µg/M <sup>3</sup> | TO-15  | 2000000                       | NA          | <1.64       | <1.64       | <1.64       | 1.73        | 1.81        | <1.64       | <1.64            | HEPTANE  | 142-82-5  | µg/M <sup>3</sup> | TO-15     | 2000000                       | NA          | <1.64       | 1.94   |
| N-HEXANE                       | N-HEXANE   | 110-54-3    | µg/M <sup>3</sup> | TO-15  | 410000                        | 36,000      | 3.01        | <1.41       | 9.61        | 13.8        | 1.87        | <1.41       | 1.66             | N-HEXANE   | 110-54-3  | µg/M <sup>3</sup> | TO-15     | 410000                        | 36,000      | <1.41       | 1.82   |
| ISOPROPYLBENZENE               | ISOPROPYLBENZENE                                 | 98-82-8     | µg/M <sup>3</sup> | TO-15  | 1700                          | 190         | <1.97       | <1.97       | <1.97       | <1.97       | <1.97       | <1.97       | <1.97            | ISOPROPYLBENZENE                                 | 98-82-8   | µg/M <sup>3</sup> | TO-15     | 1700                          | 190         | <1.97       | <1.97  |
| METHYL CYCLOHEXANE             | METHYL CYCLOHEXANE                               | 108-87-2    | µg/M <sup>3</sup> | TO-15  | NA                            | NA          | <1.61       | <1.61       | <1.61       | 1.83        | 1.86        | <1.61       | <1.61            | METHYL CYCLOHEXANE                               | 108-87-2  | µg/M <sup>3</sup> | TO-15     | NA                            | NA          | <1.61       | 2.19   |
| METHYL METHACRYLATE            | METHYL METHACRYLATE                              | 80-62-6     | µg/M <sup>3</sup> | TO-15  | NA                            | NA          | <1.64       | <1.64       | <1.64       | <1.64       | <1.64       | <1.64       | <1.64            | METHYL METHACRYLATE                              | 80-62-6   | µg/M <sup>3</sup> | TO-15     | NA                            | NA          | <1.64       | 1.76   |
| METHYLENE CHLORIDE             | METHYLENE CHLORIDE                               | 75-09-2     | µg/M <sup>3</sup> | TO-15  | 39000                         | 31,000      | 11.1        | <1.39       | 18.9        | 20.4        | <1.39       | <1.39       | 6.77             | METHYLENE CHLORIDE                               | 75-09-2   | µg/M <sup>3</sup> | TO-15     | 39000                         | 31,000      | <1.39       | 1.69   |
| NAPHTHALENE                    | NAPHTHALENE                                      | 91-20-3     | µg/M <sup>3</sup> | TO-15  | 1500                          | 59          | <6.60       | <6.60       | <6.60       | <6.60       | <6.60       | <6.60       | <6.60            | NAPHTHALENE                                      | 91-20-3   | µg/M <sup>3</sup> | TO-15     | 1500                          | 59          | <6.60       | <6.60  |
| 2-PROPANOL                     | 2-PROPANOL                                       | 67-63-0     | µg/M <sup>3</sup> | TO-15  | NA                            | NA          | 7.42        | <6.15       | 9.05        | 15.9        | <6.15       | <6.15       | <6.15            | 2-PROPANOL                                       | 67-63-0   | µg/M <sup>3</sup> | TO-15     | NA                            | NA          | <6.15       | <6.15  |
| PROPENE                        | PROPENE  | 115-07-1    | µg/M <sup>3</sup> | TO-15  | NA                            | NA          | <1.38       | <1.38       | <1.38       | 1.6         | 1.74        | <1.38       | <1.38            | PROPENE  | 115-07-1  | µg/M <sup>3</sup> | TO-15     | NA                            | NA          | <1.38       | <1.38  |
| STYRENE                        | STYRENE  | 100-42-5    | µg/M <sup>3</sup> | TO-15  | 32000                         | 3,500       | 3.7         | <1.70       | 3.04        | 4.22        | 5.75        | 2.07        | 1.99             | STYRENE  | 100-42-5  | µg/M <sup>3</sup> | TO-15     | 32000                         | 3,500       | 1.88        | 6.63   |
| TETRACHLOROETHENE              | TETRACHLOROETHENE                                | 127-18-4    | µg/M <sup>3</sup> | TO-15  | 23000                         | 1,400       | <2.72       | 4.69        | 28          | 5.73        | <2.72       | 5.69        | 1,470            | TETRACHLOROETHENE                                | 127-18-4  | µg/M <sup>3</sup> | TO-15     | 23000                         | 1,400       | 420         | 5.33   |
| TETRAHYDROFURAN                | TETRAHYDROFURAN                                  | 109-99-9    | µg/M <sup>3</sup> | TO-15  | 11000                         | 100,000     | 7.58        | 2.22        | 2.4         | 7.75        | 6           | <1.18       | <1.18            | TETRAHYDROFURAN                                  | 109-99-9  | µg/M <sup>3</sup> | TO-15     | 11000                         | 100,000     | <1.18       | 2.41   |
| TOLUENE                        | TOLUENE  | 108-88-3    | µg/M <sup>3</sup> | TO-15  | 2900000                       | 250,000     | 22.6        | 18.9        | 17.8        | 28.4        | 84.2        | 18.4        | 10.3             | TOLUENE  | 108-88-3  | µg/M <sup>3</sup> | TO-15     | 2900000                       | 250,000     | 11.4        | 20     |
| 1,1,1-TRICHLOROETHANE          | 1,1,1-TRICHLOROETHANE                            | 71-55-6     | µg/M <sup>3</sup> | TO-15  | 3500000                       | 230,000     | <2.18       | <2.18       | <2.18       | <2.18       | <2.18       | <2.18       | <2.18            | 1,1,1-TRICHLOROETHANE                            | 71-55-6   | µg/M <sup>3</sup> | TO-15     | 3500000                       | 230,000     | 5.28        | <2.18  |
| TRICHLOROETHENE                | TRICHLOROETHENE                                  | 79-01-6     | µg/M <sup>3</sup> | TO-15  | 1200                          | 67          | <2.14       | <2.14       | <2.14       | <2.14       | 2.52        | <2.14       | 3.98             | TRICHLOROETHENE                                  | 79-01-6   | µg/M <sup>3</sup> | TO-15     | 1200                          | 67          | 140         | <2.14  |
| TRICHLOROFLUOROMETHANE         | TRICHLOROFLUOROMETHANE                           | 75-69-4     | µg/M <sup>3</sup> | TO-15  | 33000000                      | 22,000      | <2.25       | 63.9        | 37.5        | 88.2        | <2.25       | 187         | 37.1             | TRICHLOROFLUOROMETHANE                           | 75-69-4   | µg/M <sup>3</sup> | TO-15     | 33000000                      | 22,000      | 126         | 10.3   |
| 1,1,2-TRICHLOROTRIFLUOROETHANE | 1,1,2-TRICHLOROTRIFLUOROETHANE                   | 76-13-1     | µg/M <sup>3</sup> | TO-15  | 11000000                      | NA          | <3.07       | <3.07       | <3.07       | <3.07       | <3.07       | <3.07       | <3.07            | 1,1,2-TRICHLOROTRIFLUOROETHANE                   | 76-13-1   | µg/M <sup>3</sup> | TO-15     | 11000000                      | NA          | <3.07       | <3.07  |
| 1,2,3-TRIMETHYLBENZENE         | 1,2,3-TRIMETHYLBENZENE                           | 526-73-8    | µg/M <sup>3</sup> | TO-15  | 130000                        | 3,100       | <1.96       | 3.05        | <1.96       | <1.96       | 2.02        | <1.96       | <1.96            | 1,2,3-TRIMETHYLBENZENE                           | 526-73-8  |                   |           |                               |             |             |        |

**Table 3 - Analytical Results Summary: Soil Gas**  
**Former Hayes Lemmerz Site**  
**W. Eight Mile Road, Ferndale, Oakland County, Michigan**

| L1119489-10 | L1119489-11 | L1119489-12 | L1119489-13 | L1119489-14 | Lab Sample ID   | Appendix D2<br>VI Shallow<br>Soil Gas<br>Screening<br>Levels | Non-<br>Residential<br>VIAP Soil<br>Gas | L1119489-15      | L1119489-16 | L1119489-17                                     | L1119489-18 | L1119489-19 | L1119489-20 | L1119489-21 | L1119489-22 |         |        |         |
|-------------|-------------|-------------|-------------|-------------|---|--|---|------------------|-------------|---|-------------|-------------|-------------|-------------|-------------|---------|--------|---------|
| C2          | C3          | C4          | D1          | D2          | Client Sample ID  |  |   | D3               | D4          | E1  | E2          | E3          | E4          | F3          | F4          |         |        |         |
| 4'-5'       | 4'-5'       | 4'-5'       | 4'-5'       | 4'-5'       | Sample Depth  |  |   | 4'-5'            | 4'-5'       | 4'-5'   | 4'-5'       | 4'-5'       | 4'-5'       | 4'-5'       | 4'-5'       |         |        |         |
| 7/15/2019   | 7/15/2019   | 7/15/2019   | 7/15/2019   | 7/15/2019   | Sample Date   |  |   | 7/15/2019        | 7/15/2019   | 7/15/2019                                       | 7/15/2019   | 7/15/2019   | 7/15/2019   | 7/15/2019   | 7/15/2019   |         |        |         |
| Air         | Air         | Air         | Air         | Air         | Matrix  |  |   | Air              | Air         | Air   | Air         | Air         | Air         | Air         | Air         |         |        |         |
|             |             |             |             |             | Analyte   | CAS No.  | Units                                   | Method           |             |   |             |             |             |             |             |         |        |         |
| 787         | 704         | 1160        | 1310        | 889         | TPH (GC/MS) LOW FRACTION  | 8006-61-9  | µg/M <sup>3</sup>                       | TO-15            | NA          | NA  | 568         | 1200        | 1090        | 989         | 760         | 2230    | 905    | 1340    |
|             |             |             |             |             | Analyte   | CAS No.  | Units                                   | Method           |             |   |             |             |             |             |             |         |        |         |
| 9.12        | 46.7        | 18.7        | 102         | 53.3        | ACETONE   | 67-64-1  | µg/M <sup>3</sup>                       | TO-15            | 3400000     | 1,000,000                                       | 12.4        | 146         | 15.7        | 9.73        | 14.1        | 30.7    | 22.5   | 12.3    |
| 6.41        | <1.28       | <1.28       | 5.3         | 7.37        | BENZENE   | 71-43-2  | µg/M <sup>3</sup>                       | TO-15            | 2200        | 260   | 5.65        | 4.56        | 4.81        | 4.82        | 5.55        | 11.9    | 2.23   | 1.82    |
| <7.37       | <7.37       | <7.37       | 66.7        | 12.9        | 2-BUTANONE (MEK)  | 78-93-3  | µg/M <sup>3</sup>                       | TO-15            | 2900000     | 170,000   | <7.37       | 23.4        | <7.37       | <7.37       | <7.37       | <7.37   | <7.37  | <7.37   |
| 2.58        | 5.55        | 1.66        | 26.3        | <1.24       | CARBON DISULFIDE  | 75-15-0  | µg/M <sup>3</sup>                       | TO-15            | 410000      | 36,000  | 2.97        | 14          | 5.71        | 1.38        | <1.24       | 104     | <1.24  | 25.1    |
| <2.52       | <2.52       | <2.52       | <2.52       | <2.52       | CARBON TETRACHLORIDE  | 56-23-5  | µg/M <sup>3</sup>                       | TO-15            | 3000        | 360   | <2.52       | <2.52       | <2.52       | <2.52       | <2.52       | <2.52   | <2.52  | <2.52   |
| 9.23        | <1.85       | <1.85       | 5.02        | 12.5        | CHLOROBENZENE   | 108-90-7   | µg/M <sup>3</sup>                       | TO-15            | 41000       | 2,600   | 12          | 5.01        | 10.5        | 8.69        | 10.3        | <1.85   | 4.69   | <1.85   |
| <1.42       | <1.42       | <1.42       | 2.24        | <1.42       | CHLORODIFLUOROMETHANE   | 75-45-6  | µg/M <sup>3</sup>                       | TO-15            | NA          | NA  | 2.14        | <1.42       | <1.42       | <1.42       | 6.64        | 70.3    | <1.42  | <1.42   |
| <1.06       | <1.06       | <1.06       | 18.8        | <1.06       | CHLOROETHANE  | 75-00-3  | µg/M <sup>3</sup>                       | TO-15            | 5800000     | 200,000   | 3.83        | 8.59        | <1.06       | <1.06       | <1.06       | 1.74    | <1.06  | <1.06   |
| <1.95       | <1.95       | 9.2         | <1.95       | <1.95       | CHLOROFORM  | 67-66-3  | µg/M <sup>3</sup>                       | TO-15            | 7600        | 87  | 3.3         | 3.53        | <1.95       | <1.95       | <1.95       | 8.28    | <1.95  | 4.54    |
| <0.826      | 1.04        | <0.826      | 0.96        | 1.26        | CHLOROMETHANE   | 74-87-3  | µg/M <sup>3</sup>                       | TO-15            | 29000       | 4,600   | <0.826      | 1.24        | <0.826      | <0.826      | <0.826      | <0.826  | <0.826 | <0.826  |
| <1.38       | <1.38       | <1.38       | 6.65        | <1.38       | CYCLOHEXANE   | 110-82-7   | µg/M <sup>3</sup>                       | TO-15            | 3500000     | 310,000   | <1.38       | 4.16        | <1.38       | <1.38       | <1.38       | 6.06    | <1.38  | <1.38   |
| <2.40       | <2.40       | <2.40       | <2.40       | <2.40       | 1,2-DICHLOROBENZENE   | 95-50-1  | µg/M <sup>3</sup>                       | TO-15            | 180000      | 15,000  | 2.74        | <2.40       | 4.34        | <2.40       | <2.40       | <2.40   | <2.40  | <2.40   |
| <2.40       | <2.40       | <2.40       | <2.40       | <2.40       | 1,4-DICHLOROBENZENE   | 106-46-7   | µg/M <sup>3</sup>                       | TO-15            | 2600        | 510   | <2.40       | <2.40       | 2.9         | <2.40       | <2.40       | <2.40   | <2.40  | <2.40   |
| 2.38        | 4.93        | 4.03        | 2.45        | 2.54        | DICHLORODIFLUOROMETHANE   | 75-71-8  | µg/M <sup>3</sup>                       | TO-15            | 2900000     | 17,000  | 18.9        | 4.18        | 2.39        | 6.53        | 12.2        | 107     | 1130   | 107     |
| <1.60       | <1.60       | <1.60       | <1.60       | <1.60       | 1,1-DIFLUOROETHANE  | 75-34-3  | µg/M <sup>3</sup>                       | TO-15            | 290000      | 1,200   | <1.60       | <1.60       | <1.60       | <1.60       | <1.60       | 1.84    | <1.60  | <1.60   |
| <1.62       | <1.62       | <1.62       | <1.62       | <1.62       | 1,2-DICHLOROETHANE  | 107-06-2   | µg/M <sup>3</sup>                       | TO-15            | 700         | 77  | <1.62       | <1.62       | <1.62       | <1.62       | <1.62       | <1.62   | <1.62  | <1.62   |
| <1.59       | <1.59       | <1.59       | <1.59       | <1.59       | CIS-1,2-DICHLOROETHENE  | 156-59-2   | µg/M <sup>3</sup>                       | TO-15            | 4100        | 410   | <1.59       | <1.59       | <1.59       | <1.59       | <1.59       | <1.59   | <1.59  | <1.59   |
| <2.80       | <2.80       | <2.80       | <2.80       | 4.08        | 1,2-DICHLOROTETRAFLUOROETHANE                                       | 76-14-2  | µg/M <sup>3</sup>                       | TO-15            | NA          | NA  | <2.80       | <2.80       | <2.80       | <2.80       | <2.80       | <2.80   | <2.80  | <2.80   |
| 3.87        | 3.93        | 16.6        | 39.1        | 2.85        | 1,1-DIFLUOROETHANE  | 75-37-6  | µg/M <sup>3</sup>                       | TO-15            | NA          | NA  | 37.5        | 8.65        | 1.78        | 2.99        | <1.08       | 3.28    | 12.5   | 2.03    |
| <1.44       | 4.73        | <1.44       | <1.44       | <1.44       | 1,4-DIOXANE   | 123-91-1   | µg/M <sup>3</sup>                       | TO-15            | NA          | 400   | <1.44       | 1.7         | <1.44       | <1.44       | <1.44       | <1.44   | <1.44  | <1.44   |
| 33.9        | 14.1        | <2.38       | 164         | 36.7        | ETHANOL   | 64-17-5  | µg/M <sup>3</sup>                       | TO-15            | NA          | 630,000   | 46.1        | 88.8        | 20.2        | 29.1        | 28.5        | 6120    | 39.7   | 8240    |
| 1.48        | <1.44       | <1.44       | 29.3        | 2.86        | ETHYL ACETATE   | 141-78-6   | µg/M <sup>3</sup>                       | TO-15            | 1900000     | 3,600   | 1.69        | 2.11        | <1.44       | <1.44       | 1.99        | <1.44   | <1.44  | <1.44   |
| 6.79        | 3.51        | 5.2         | 15.6        | 7.62        | ETHYLBENZENE  | 100-41-4   | µg/M <sup>3</sup>                       | TO-15            | 59000       | 800   | 5.42        | 11.9        | 4.67        | 6.18        | 6.79        | 8.43    | 4.9    | 5.24    |
| 3.12        | 2.36        | 3.57        | 3.96        | 3.13        | 4-ETHYLTOLUENE  | 622-96-8   | µg/M <sup>3</sup>                       | TO-15            | NA          | NA  | 2.22        | 3.46        | 3.02        | 2.74        | 3.48        | 4.05    | 2.85   | 2.88    |
| <1.64       | <1.64       | <1.64       | 13.4        | <1.64       | HEPTANE   | 142-82-5   | µg/M <sup>3</sup>                       | TO-15            | 2000000     | NA  | <1.64       | 7.38        | 2.59        | <1.64       | <1.64       | 9.78    | 1.84   | <1.64   |
| <1.41       | <1.41       | 1.87        | 14          | <1.41       | N-HEXANE  | 110-54-3   | µg/M <sup>3</sup>                       | TO-15            | 410000      | 36,000  | 1.94        | 7.58        | 2.46        | <1.41       | <1.41       | 14.3    | 2.42   | 1.63    |
| <1.97       | <1.97       | <1.97       | <1.97       | <1.97       | ISOPROPYLBENZENE  | 98-82-8  | µg/M <sup>3</sup>                       | TO-15            | 1700        | 190   | <1.97       | 2.17        | <1.97       | <1.97       | <1.97       | <1.97   | <1.97  | <1.97   |
| <1.61       | <1.61       | <1.61       | 21.3        | <1.61       | METHYL CYCLOHEXANE  | 108-87-2   | µg/M <sup>3</sup>                       | TO-15            | NA          | NA  | <1.61       | 11.4        | <1.61       | <1.61       | <1.61       | 15      | <1.61  | 1.63    |
| 1.7         | <1.64       | <1.64       | 6.96        | 4.48        | METHYL METHACRYLATE   | 80-62-6  | µg/M <sup>3</sup>                       | TO-15            | NA          | NA  | <1.64       | 2.34        | 1.9         | <1.64       | <1.64       | 2.92    | 1.99   | 1.86    |
| <1.39       | 1.68        | 5.38        | 9.76        | <1.39       | METHYLENE CHLORIDE  | 75-09-2  | µg/M <sup>3</sup>                       | TO-15            | 39000       | 31,000  | 7.05        | 1.91        | <1.39       | <1.39       | <1.39       | 3.99    | 3.85   | <1.39   |
| <6.60       | <6.60       | <6.60       | <6.60       | <6.60       | NAPHTHALENE   | 91-20-3  | µg/M <sup>3</sup>                       | TO-15            | 1500        | 59  | <6.60       | <6.60       | 25.8        | <6.60       | <6.60       | <6.60   | <6.60  | <6.60   |
| <6.15       | 17.3        | <6.15       | 48.9        | 8.8         | 2-PROPANOL  | 67-63-0  | µg/M <sup>3</sup>                       | TO-15            | NA          | NA  | <6.15       | 26.3        | <6.15       | <6.15       | 7.54        | <6.15   | <6.15  | <6.15   |
| <1.38       | <1.38       | <1.38       | <1.38       | <1.38       | PROPENE   | 115-07-1   | µg/M <sup>3</sup>                       | TO-15            | NA          | NA  | <1.38       | <1.38       | <1.38       | <1.38       | <1.38       | 97      | <1.38  | <1.38   |
| 5.05        | <1.70       | 1.91        | 17.1        | 5.79        | STYRENE   | 100-42-5   | µg/M <sup>3</sup>                       | TO-15            | 32000       | 3,500   | 3.84        | 8.17        | 4.45        | 5.61        | 4.57        | 6.54    | 4.07   | 2.05    |
| 49.9        | 14.2        | 19.2        | 19.2        | 27.8        | TETRACHLOROETHENE   | 127-18-4   | µg/M <sup>3</sup>                       | TO-15            | 23000       | 1,400   | 7.41        | 6.92        | 373         | 72.3        | 13.3        | 29.8    | 18.7   | 81.8    |
| 6.13        | 2.36        | <1.18       | 4.07        | 11.1        | TETRAHYDROFURAN   | 109-99-9   | µg/M <sup>3</sup>                       | TO-15            | 11000       | 100,000   | 4.75        | 19.7        | 5.13        | 4.32        | 5           | <1.18   | 1.69   | <1.18   |
| 19.4        | 9.22        | 14.3        | 149         | 24.8        | TOLUENE   | 108-88-3   | µg/M <sup>3</sup>                       | TO-15            | 2900000     | 250,000   | 15.9        | 69.2        | 11          | 16.1        | 18.2        | 40.1    | 13.5   | 12      |
| <2.18       | 3.25        | 16.9        | <2.18       | <2.18       | 1,1,1-TRICHLOROETHANE   | 71-55-6  | µg/M <sup>3</sup>                       | TO-15            | 3500000     | 230,000   | 3.7         | 3.13        | <2.18       | <2.18       | 8.13        | 5.15    | 3.4    | 9.57    |
| 2.22        | 192         | 15.5        | <2.14       | <2.14       | TRICHLOROETHENE   | 79-01-6  | µg/M <sup>3</sup>                       | TO-15            | 1200        | 67  | 9.5         | 14          | <2.14       | <2.14       | <2.14       | 157     | <2.14  | 3.18    |
| 75.7        | 941         | 5160        | 28.2        | 231         | TRICHLOROFUOROMETHANE   | 75-69-4  | µg/M <sup>3</sup>                       | TO-15            | 3300000     | 22,000  | 4400        | 741         | 4.67        | 118         | 167         | 919     | 1150   | 4140    |
| <3.07       | <3.07       | <3.07       | <3.07       | <3.07       | 1,1,2-TRICHLOROTRIFLUOROETHANE                                      | 76-13-1  | µg/M <sup>3</sup>                       | TO-15            | 11000000    | NA  | 5.1         | <3.07       | <3.07       | <3.07       | <3.07       | 3.49    | <3.07  | <3.07   |
| 2.69        | 3.18        | 3.16        | 3.68        | 2.98        | 1,2,3-TRIMETHYLBENZENE  | 526-73-8   | µg/M <sup>3</sup>                       | TO-15            | 130000      | 3,100   | 3.37        | 3.36        | 6.15        | 2.7         | 3.91        | 6.72    | 2.95   | 3.65    |
| 11.6        | 11.5        | 14.2        | 16.3        | 13.2        | 1,2,4-TRIMETHYLBENZENE  | 95-63-6  | µg/M <sup>3</sup>                       | TO-15            | 130000      | 3,100   | 11.9        | 15.1        | 18.1        | 11.9        | 16.6        | 22.8    | 12.3   | 15      |
| 3.06        | 2.95        | 3.58        | 4.38        | 3.59        | 1,3,5-TRIMETHYLBENZENE  | 108-67-8   | µg/M <sup>3</sup>                       | TO-15            | 130000      | 3,100   | 3.06        | 4.06        | 6.5         | 3.15        | 4.1         | 9.35    | 3.19   | 3.88    |
| <1.87       | <1.87       | <1.87       | 6.76        | <1.87       | 2,2,4-TRIMETHYLPENTANE  | 540-84-1   | µg/M <sup>3</sup>                       | TO-15            | 2000000     | 180,000   | <1.87       | 4.55        | <1.87       | <1.87       | <1.87       | 35      | <1.87  | <1.87   |
| 39.3        | 22.4        | 33.97       | 68.9        | 45.1        | XYLENES, Total  | 1330-20-7  | µg/M <sup>3</sup>                       | TO-15            | NA          | 11,000  | 30.8        | 63.8        | 28.92       | 38.8        | 40.5        | 51.9    | 31.4   | 31.37   |
|             |             |             |             |             | Analyte   | CAS No.  | Units                                   | Method           |             |   |             |             |             |             |             |         |        |         |
| 19/19       | 50/48       | 141/135     | 62/58       | 58/50       | Mercury Vapor (max/average)<br>(field screening results of 7/24/19) | 7439-97-6  | ng/M <sup>3</sup>                       | Lumex<br>RA-915+ | NA          | 15µg/M <sup>3</sup><br>15,000 ng/M <sup>3</sup> | 71/69       | 55/51*      | 32/29       | 81/74       | 51/49       | 143/141 | 54/51  | 160/149 |

0) 1470 Red shading indicates analyte exceeds the Non-Residential Volatilization to Indoor Air Pathway (VIAP) screening levels (September 2020)  
5.69 Clear shading indicates analyte detected below criteria  
<3.0 Green shading indicates analyte "Not-Detected" in excess of laboratory method detection levels (MDLs)  
NA NA - Criteria for analyte not available  
 \*Tedlar bag result - Tedlar bags collected 7/15/19

**Table 4 - Mercury Vapor Sampling Results  
 Former Hayes Lemmerz Site  
 W. Eight Mile Road, Ferndale, Oakland County, Michigan**

| SAMPLE ID |       | DATE/TIME COLLECTED (Tedlars) | PID RESULTS | Hg Vapor Results Max / Average | DATE/TIME FIELD SCREENED | Hg Vapor Results Max / Average |
|-----------|-------|-------------------------------|-------------|--------------------------------|--------------------------|--------------------------------|
| 1         | A-1   | 7/15/19 11:22                 | 0.0         | 47 / 43                        | 7/24/19 15:32            | 11 / 9                         |
| 2         | A-2   | 7/15/19 11:24                 | 0.0         | 45 / 44                        | 7/24/19 15:41            | 34 / 32                        |
| 3         | A-3   | 7/15/19 11:26                 | 0.0         | 47 / 45                        | 7/24/19 15:49            | 76 / 74                        |
| 4         | A-4   | 7/15/19 11:28                 | 0.0         | 49 / 46                        | 7/24/19 16:03            | 37 / 34                        |
| 5         | B-1   | 7/15/19 12:12                 | 0.0         | 47 / 44                        | 7/24/19 15:04            | 24 / 21                        |
| 6         | B-2   | 7/15/19 12:14                 | 0.0         | 51 / 47                        | 7/24/19 15:12            | 24 / 22                        |
| 7         | B-3   | 7/15/19 12:16                 | 0.0         | 52 / 48                        | 7/24/19 15:18            | 31 / 28                        |
| 8         | B-4   | 7/15/19 12:18                 | 0.0         | 53 / 50                        | 7/24/19 15:26            | 64 / 62                        |
| 9         | C-1   | 7/15/19 13:40                 | 0.0         | 42 / 37                        | 7/24/19 14:50            | 34 / 32                        |
| 10        | C-2   | 7/15/19 13:42                 | 0.0         | 38 / 35                        | 7/24/19 14:57            | 19 / 19                        |
| 11        | C-3   | 7/15/19 13:45                 | 0.0         | 42 / 38                        | 7/24/19 16:10            | 50 / 48                        |
| 12        | C-4   | 7/15/19 13:47                 | 0.0         | 56 / 40                        | 7/24/19 12:57            | 141 / 135                      |
| 13        | D-1   | 7/15/19 14:05                 | 0.0         | 45 / 41                        | 7/24/19 14:45            | 62 / 58                        |
| 14        | D-2   | 7/15/19 14:07                 | 0.0         | 48 / 44                        | 7/24/19 14:37            | 58 / 50                        |
| 15        | D-3   | 7/15/19 14:10                 | 0.0         | 55 / 50                        | 7/24/19 14:30            | 71 / 69                        |
| 16        | D-4   | 7/15/19 14:12                 | 0.0         | 55 / 51                        |                          |                                |
| 17        | E-1   | 7/15/19 15:54                 | 0.0         | 46 / 42                        | 7/24/19 12:59            | 32 / 29                        |
| 18        | E-2   | 7/15/19 15:59                 | 0.0         | 45 / 42                        | 7/24/19 12:52            | 81 / 74                        |
| 19        | E-3   | 7/15/19 17:10                 | 0.0         | 46 / 43                        | 7/24/19 12:48            | 51 / 49                        |
| 20        | E-4   | 7/15/19 17:14                 | 0.0         | 75 / 73                        | 7/24/19 12:40            | 143 / 141                      |
| 21        | F-3   | 7/15/19 16:30                 | 0.0         | 46 / 43                        | 7/24/19 12:20            | 54 / 51                        |
| 22        | F-4   | 7/15/19 16:35                 | 0.0         | 94 / 86                        | 7/24/19 12:30            | 160 / 149                      |
| 23        | Dup-1 |                               | 0.0         | 50 / 46                        |                          | /                              |

Notes: PID results as ppm  
 Hg vapor results as nm/M<sup>3</sup>

## **APPENDIX C**



46555 Humboldt Drive  
Suite 100  
Novi, MI 48377  
Phone: (248) 669-5140

**Project Number:** NPDX19001  
**Project Name:** Detroit Axle  
**Site Location:** 1600 W. 8 Mile Rd.  
**City:** Ferndale, MI 48220  
**Boring Diameter:** 4" HA / 2.25" Macrocore  
**Drilling Method:** Hand Auger / Macrocore/Hollow Auger

# Monitoring Well Boring Log

**Boring ID:** MW-101 **Page:** 1 of 1  
**Start Date:** 03/23/20 **End Date:** 03/23/20  
**Casing:** Schedule 40 PVC  
**Casing Diameter:** 2" **Length:** 7.5'  
**Screen Slot Size:** 0.010"  
**Screen Diameter:** 2" **Length:** 5'

| FEET (bgs) | SAMPLE TYPE | SAMPLE INTERVAL (bgs) | SAMPLE TIME | Recovery | USCS | Graphic | LITHOLOGY DESCRIPTION   | PID (PPMV) | Well Construction    |
|------------|-------------|-----------------------|-------------|----------|------|---------|---|------------|----------------------|
| 0          |             |                       |             | 12"      |      |         | Topsoil/Grass   | 0.0        | Concrete             |
| 1          |             |                       |             | 12"      |      |         |   | 0.0        | Sand                 |
| 2          | Soil        | 2-3'                  | 1440        | 12"      |      |         | FILL SAND, tan, damp, fine grain  | 0.0        |                      |
| 3          |             |                       |             | 12"      |      |         |   | 0.0        |                      |
| 4          |             |                       |             | 12"      | SW   |         |   | 0.0        |                      |
| 5          |             |                       |             | 12"      |      |         |   | 0.0        |                      |
| 6          |             |                       |             | 12"      |      |         |   | 0.0        | Bentonite            |
| 7          |             |                       |             | 12"      |      |         | SAND, brown, damp, fine grain   | 0.0        |                      |
| 8          |             |                       |             | 12"      |      |         |   | 0.0        |                      |
| 9          | Soil        | 8-9'                  | 1450        | 12"      |      |         | SAND, light brown, wet at 10', fine grain with interbedded medium sand lenses | 0.0        |                      |
| 10         |             |                       |             | 12"      |      |         |   | 0.0        |                      |
| 11         |             |                       |             | 12"      |      |         |   | 0.0        | Sand                 |
| 12         |             |                       |             | 12"      |      |         |   | 0.0        | Screen               |
| 13         |             |                       |             | 12"      |      |         |   | 0.0        |                      |
| 14         |             |                       |             | 12"      |      |         |   | 0.0        | Native Collapse/Sand |
| 15         |             |                       |             | 12"      |      |         |   | 0.0        |                      |

EOB 15'

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE  
(AK) = AIR KNIFE (GS) = GeoSonic  
(SS) = SPLIT SPOON bpf = blows per foot  
(qP) = Penetrometer Unconfined Compressive Strength

**Logged by:** Ira Adolphues  
**Drawn by:** Ira Adolphues  
**Checked by:** Joshua Schyuler

### Borehole Observations After Drilling

**Immediately after:** 10.00'  
**4/8/20 - Gauging Event:** 7.99'  
**Backfill:** Well materials

**Drilling Co.:** Job Site Services  
**Drill Rig Type:** Geoprobe 7720DT

(Rec.) = RECOVERY (EOB) = END OF BORING  
(bgs) = Below Ground Surface  
(NR) = NO RECOVERY  
(NA) = NOT APPLICABLE

**Driller:** Ian  
**Assistant:** Trevor



46555 Humboldt Drive  
Suite 100  
Novi, MI 48377  
Phone: (248) 669-5140

**Project Number:** NPDAX19001  
**Project Name:** Detroit Axle  
**Site Location:** 1600 W. 8 Mile Rd.  
**City:** Ferndale, MI 48220  
**Boring Diameter:** 4" HA / 2.25" Macrocore  
**Drilling Method:** Hand Auger / Macrocore/Hollow Auger

# Monitoring Well Boring Log

**Boring ID:** MW-102 **Page:** 1 of 1  
**Start Date:** 03/23/20 **End Date:** 03/23/20  
**Casing:** Schedule 40 PVC  
**Casing Diameter:** 2" **Length:** 8'  
**Screen Slot Size:** 0.010"  
**Screen Diameter:** 2" **Length:** 5'

| FEET (bgs) | SAMPLE TYPE | SAMPLE INTERVAL (bgs) | SAMPLE TIME | Recovery | USCS | Graphic | LITHOLOGY DESCRIPTION   | PID (PPMV) | Well Construction    |
|------------|-------------|-----------------------|-------------|----------|------|---------|---|------------|----------------------|
| 0          |             |                       |             |          |      |         | Topsoil/Grass   | 0.0        | Concrete             |
| 1          |             |                       |             | 12"      |      |         |   | 0.0        | Sand                 |
| 2          | Soil        | 2-3'                  | 1350        | 12"      |      |         |   | 0.0        |                      |
| 3          |             |                       |             | 12"      | SW   |         | FILL SAND, brown, damp, fine grain                              | 0.0        |                      |
| 4          |             |                       |             | 12"      |      |         |   | 0.0        |                      |
| 5          |             |                       |             | 12"      |      |         |   | 0.0        | Bentonite            |
| 6          |             |                       |             | 12"      |      |         |   | 0.0        |                      |
| 7          |             |                       |             | 12"      | SW   |         | SAND, brown, damp, medium to fine grain                         | 0.0        |                      |
| 8          | Soil        | 8-9'                  | 1356        | 12"      |      |         |   | 0.0        |                      |
| 9          |             |                       |             | 12"      | SW   |         | SAND, tan, wet at 10', fine grain                               | 0.0        | Sand                 |
| 10         |             |                       |             | 12"      |      |         |   | 0.0        | Screen               |
| 11         |             |                       |             | 12"      |      |         |   | 0.0        |                      |
| 12         |             |                       |             | 12"      | SW   |         | SAND, grey, wet, fine grain with interbedded medium sand lenses | 0.0        |                      |
| 13         |             |                       |             | 12"      |      |         |   | 0.0        |                      |
| 14         |             |                       |             | 12"      |      |         |   | 0.0        | Native Collapse/Sand |
| 15         |             |                       |             | 12"      |      |         |   | 0.0        |                      |
| EOB 15'    |             |                       |             |          |      |         |   |            |                      |

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE  
(AK) = AIR KNIFE (GS) = GeoSonic  
(SS) = SPLIT SPOON bpf = blows per foot  
(qP) = Penetrometer Unconfined Compressive Strength

**Logged by:** Ira Adolphues  
**Drawn by:** Ira Adolphues  
**Checked by:** Joshua Schyuler

### Borehole Observations After Drilling

**Immediately after:** 10.00'

**4/8/20 - Gauging Event:** 9.60'

**Backfill:** Well materials

**Drilling Co.:** Job Site Services

**Drill Rig Type:** Geoprobe 7720DT

(Rec.) = RECOVERY

(bgs) = Below Ground Surface

(NR) = NO RECOVERY

(NA) = NOT APPLICABLE

(EOB) = END OF BORING

**Driller:** Ian

**Assistant:** Trevor





46555 Humboldt Drive  
Suite 100  
Novi, MI 48377  
Phone: (248) 669-5140

**Project Number:** NPDAX19001  
**Project Name:** Detroit Axle  
**Site Location:** 1600 W. 8 Mile Rd.  
**City:** Ferndale, MI 48220  
**Boring Diameter:** 4" HA / 2.25" Macrocore  
**Drilling Method:** Hand Auger / Macrocore/Hollow Auger

# Monitoring Well Boring Log

**Boring ID:** MW-103 **Page:** 1 of 1  
**Start Date:** 03/23/20 **End Date:** 03/23/20  
**Casing:** Schedule 40 PVC  
**Casing Diameter:** 2" **Length:** 8'  
**Screen Slot Size:** 0.010"  
**Screen Diameter:** 2" **Length:** 5'

| FEET (bgs) | SAMPLE TYPE | SAMPLE INTERVAL (bgs) | SAMPLE TIME | Recovery | USCS | Graphic | LITHOLOGY DESCRIPTION   | PID (PPMV) | Well Construction    |
|------------|-------------|-----------------------|-------------|----------|------|---------|---|------------|----------------------|
| 0          |             |                       |             | 12"      |      |         | Topsoil/Grass   | 0.0        | Concrete Sand        |
| 1          |             |                       |             | 12"      |      |         |   | 0.0        |                      |
| 2          | Soil        | 2-3'                  | 1047        | 12"      |      |         |   | 0.0        |                      |
| 3          |             |                       |             | 12"      | SW   |         | FILL SAND, tan, damp, medium to fine grain                        | 0.0        |                      |
| 4          |             |                       |             | 12"      |      |         |   | 0.0        |                      |
| 5          |             |                       |             | 12"      |      |         |   | 0.0        | Bentonite            |
| 6          |             |                       |             | 12"      |      |         |   | 0.0        |                      |
| 7          |             |                       |             | 12"      | SW   |         | SAND, brown, damp, fine grain                                     | 0.0        |                      |
| 8          |             |                       |             | 12"      |      |         |   | 0.0        |                      |
| 9          | Soil        | 8-9'                  | 1315        | 12"      |      |         |   | 0.0        |                      |
| 10         |             |                       |             | 12"      |      |         |   | 0.0        | Sand                 |
| 11         |             |                       |             | 12"      |      |         |   | 0.0        | Screen               |
| 12         |             |                       |             | 12"      | SW   |         | SAND, grey, wet at 10', fine grain with interbedded medium lenses | 0.0        |                      |
| 13         |             |                       |             | 12"      |      |         |   | 0.0        |                      |
| 14         |             |                       |             | 12"      |      |         |   | 0.0        |                      |
| 15         |             |                       |             | 12"      |      |         |   | 0.0        | Native Collapse/Sand |
| EOB 15'    |             |                       |             |          |      |         |   |            |                      |

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE  
(AK) = AIR KNIFE (GS) = GeoSonic  
(SS) = SPLIT SPOON bpf = blows per foot  
(qP) = Penetrometer Unconfined Compressive Strength

**Logged by:** Ira Adolphues  
**Drawn by:** Ira Adolphues  
**Checked by:** Joshua Schyuler

**Borehole Observations After Drilling**  
Immediately after: 10.00'  
4/8/20 - Gauging Event: 9.55'  
Backfill: Well materials

**Drilling Co.:** Job Site Services  
**Drill Rig Type:** Geoprobe 7720DT

(Rec.) = RECOVERY (EOB) = END OF BORING  
(bgs) = Below Ground Surface  
(NR) = NO RECOVERY  
(NA) = NOT APPLICABLE

**Driller:** Ian  
**Assistant:** Trevor



46555 Humboldt Drive  
Suite 100  
Novi, MI 48377  
Phone: (248) 669-5140

**Project Number:** NPDAX19001  
**Project Name:** Detroit Axle  
**Site Location:** 1600 W. 8 Mile Rd.  
**City:** Ferndale, MI 48220  
**Boring Diameter:** 4" HA / 2.25" Macrocore  
**Drilling Method:** Hand Auger / Macrocore/Hollow Auger

# Monitoring Well Boring Log

**Boring ID:** MW-104 **Page:** 1 of 1  
**Start Date:** 03/23/20 **End Date:** 03/23/20  
**Casing:** Schedule 40 PVC  
**Casing Diameter:** 2" **Length:** 15'  
**Screen Slot Size:** 0.010"  
**Screen Diameter:** 2" **Length:** 5'

| FEET (bgs) | SAMPLE TYPE | SAMPLE INTERVAL (bgs) | SAMPLE TIME | Recovery | USCS | Graphic | LITHOLOGY DESCRIPTION                                | PID (PPMV) | Well Construction |
|------------|-------------|-----------------------|-------------|----------|------|---------|--|------------|-------------------|
| 0          |             |                       |             |          |      |         | Topsoil/Grass  | 0.0        | Concrete Sand     |
| 1          | Soil        | 2-3'                  | 1020        | 12"      | SW   |         | FILL SAND, brown, damp, medium to fine grain         | 0.0        | Bentonite         |
| 2          |             |                       |             | 12"      |      |         | FILL SAND, reddish brown, damp, medium to fine grain | 0.0        |                   |
| 3          |             |                       |             | 12"      |      |         | FILL SAND, tan, damp, fine grain                     | 0.0        |                   |
| 4          |             |                       |             | 12"      |      |         | SAND, tan, damp, fine grain                          | 0.0        |                   |
| 5          | Soil        | 13-14'                | 1230        | 12"      | SW   |         | SAND, tan, moist, medium to fine grain               | 0.0        | Screen            |
| 6          |             |                       |             | 12"      |      |         | SAND, grey, moist, fine grain                        | 0.0        |                   |
| 7          |             |                       |             | 12"      |      |         |  | 0.0        |                   |
| 8          |             |                       |             | 12"      |      |         |  | 0.0        |                   |
| 9          |             |                       |             | 12"      |      |         |  | 0.0        |                   |
| 10         |             |                       |             | 12"      |      |         |  | 0.0        |                   |
| 11         |             |                       |             | 12"      |      |         |  | 0.0        |                   |
| 12         |             |                       |             | 12"      |      |         |  | 0.0        |                   |
| 13         | 12"         |                       | 0.0         |          |      |         |  |            |                   |
| 14         | 12"         |                       | 0.0         | Sand     |      |         |  |            |                   |
| 15         | 12"         |                       | 0.0         |          |      |         |  |            |                   |
| 16         | 12"         |                       | 0.0         |          |      |         |  |            |                   |
| 17         | 12"         |                       | 0.0         |          |      |         |  |            |                   |
| 18         | 12"         |                       | 0.0         |          |      |         |  |            |                   |
| 19         | 12"         |                       | 0.0         |          |      |         |  |            |                   |
| 20         |             |                       |             |          |      |         |  |            |                   |

EOB 20'

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE  
(AK) = AIR KNIFE (GS) = GeoSonic  
(SS) = SPLIT SPOON bpf = blows per foot  
(qP) = Penetrometer Unconfined Compressive Strength

**Borehole Observations After Drilling**

Immediately after: 15.00'  
4/8/20 - Gauging Event: 9.49'  
Backfill: Well materials

(Rec.) = RECOVERY (EOB) = END OF BORING  
(bgs) = Below Ground Surface  
(NR) = NO RECOVERY  
(NA) = NOT APPLICABLE

Logged by: Ira Adolphues  
Drawn by: Ira Adolphues  
Checked by: Joshua Schyuler

Drilling Co.: Job Site Services  
Drill Rig Type: Geoprobe 7720DT

Driller: Ian  
Assistant: Trevor



46555 Humboldt Drive  
Suite 100  
Novi, MI 48377  
Phone: (248) 669-5140

**Project Number:** NPDAX19001  
**Project Name:** Detroit Axle  
**Site Location:** 1600 W. 8 Mile Rd.  
**City:** Ferndale, MI 48220  
**Boring Diameter:** 4" HA / 2.25" Macrocore  
**Drilling Method:** Hand Auger / Macrocore/Hollow Auger

# Monitoring Well Boring Log

**Boring ID:** MW-105 **Page:** 1 of 1  
**Start Date:** 03/23/20 **End Date:** 03/23/20  
**Casing:** Schedule 40 PVC  
**Casing Diameter:** 2" **Length:** 9'  
**Screen Slot Size:** 0.010"  
**Screen Diameter:** 2" **Length:** 5'

| FEET (bgs) | SAMPLE TYPE | SAMPLE INTERVAL (bgs) | SAMPLE TIME | Recovery | USCS | Graphic | LITHOLOGY DESCRIPTION                                  | PID (PPMV) | Well Construction    |
|------------|-------------|-----------------------|-------------|----------|------|---------|--|------------|----------------------|
| 0          |             |                       |             |          |      |         | Topsoil  | 0.0        | Concrete Sand        |
| 1          | Soil        | 2-3'                  | 1010        | 12"      | SW   |         | FILL SAND, brown, damp, med to fine grain, trace roots | 0.0        | Bentonite            |
| 2          |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 3          |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 4          |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 5          |             |                       |             |          |      |         |  |            |                      |
| 6          |             |                       |             |          |      |         |  |            |                      |
| 7          |             |                       |             |          |      |         |  |            |                      |
| 8          |             |                       |             |          |      |         | SAND, tan, damp, fine grain                            | 0.0        | Sand                 |
| 9          |             |                       |             | 12"      | SW   | 0.0     |  |            |                      |
| 10         |             |                       |             | 12"      |      | 0.0     |  |            |                      |
| 11         |             |                       |             | 12"      |      | 0.0     |  |            |                      |
| 12         |             |                       |             | 12"      |      | 0.0     |  |            |                      |
| 13         | Soil        | 12-13'                | 1215        | 12"      |      |         | SAND, grey, moist at 14', fine grain                   | 0.0        | Screen               |
| 14         |             |                       |             | 12"      | 0.0  |         |  |            |                      |
| 15         |             |                       |             |          |      |         |  | 0.0        | Native Collapse/Sand |
| EOB 15'    |             |                       |             |          |      |         |  |            |                      |

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE  
(AK) = AIR KNIFE (GS) = GeoSonic  
(SS) = SPLIT SPOON bpf = blows per foot  
(qP) = Penetrometer Unconfined Compressive Strength

**Logged by:** Ira Adolphues  
**Drawn by:** Ira Adolphues  
**Checked by:** Joshua Schyuler

| Borehole Observations After Drilling |        |
|--------------------------------------|--------|
| Immediately after:                   | 11.00' |
| 4/8/20 - Gauging Event:              | 10.66' |
| Backfill : Well materials            |        |

**Drilling Co.:** Job Site Services  
**Drill Rig Type:** Geoprobe 7720DT

(Rec.) = RECOVERY (EOB) = END OF BORING  
(bgs) = Below Ground Surface  
(NR) = NO RECOVERY  
(NA) = NOT APPLICABLE

**Driller:** Ian  
**Assistant:** Trevor



46555 Humboldt Drive  
Suite 100  
Novi, MI 48377  
Phone: (248) 669-5140

**Project Number:** NPDAX19001  
**Project Name:** Detroit Axle  
**Site Location:** 1600 W. 8 Mile Rd.  
**City:** Ferndale, MI 48220  
**Boring Diameter:** 4" HA / 2.25" Macrocore  
**Drilling Method:** Hand Auger / Macrocore/Hollow Auger

# Monitoring Well Boring Log

**Boring ID:** MW-106 **Page:** 1 of 1  
**Start Date:** 03/25/20 **End Date:** 03/25/20  
**Casing:** Schedule 40 PVC  
**Casing Diameter:** 2" **Length:** 7.5'  
**Screen Slot Size:** 0.010"  
**Screen Diameter:** 2" **Length:** 5'

| FEET (bgs) | SAMPLE TYPE | SAMPLE INTERVAL (bgs) | SAMPLE TIME | Recovery | USCS | Graphic | LITHOLOGY DESCRIPTION  | PID (PPMV) | Well Construction    |
|------------|-------------|-----------------------|-------------|----------|------|---------|--|------------|----------------------|
| 0          |             |                       |             |          |      |         | Leaves\Topsoil   | 0.1        | Concrete Sand        |
| 1          |             |                       |             | 12"      |      |         |  | 0.3        |                      |
| 2          | Soil        | 2-3'                  | 0810        | 12"      |      |         |  | 0.3        |                      |
| 3          |             |                       |             | 12"      | SW   |         | FILL SAND, reddish brown, from 1' to 1.5', tan from 2' to 6', damp, fine grain | 0.3        |                      |
| 4          |             |                       |             | 12"      |      |         |  | 0.3        |                      |
| 5          |             |                       |             | 12"      |      |         |  | 0.3        | Bentonite            |
| 6          |             |                       |             | 12"      | SW   |         | SAND, tan, wet at 7', fine grain   | 0.1        |                      |
| 7          | Soil        | 7-8'                  | 0822        | 12"      |      |         |  | 0.0        |                      |
| 8          |             |                       |             | 12"      | SW   |         | SAND, tan, moist, medium to fine grain, medium grain lens at 10'               | 0.0        |                      |
| 9          |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 10         |             |                       |             | 12"      | SW   |         | SAND, tan, moist, medium to fine grain, medium grain lens at 12'               | 0.0        | Sand                 |
| 11         |             |                       |             | 12"      |      |         |  | 0.0        | Screen               |
| 12         |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 13         |             |                       |             | 12"      | SW   |         | SAND, grey, moist, fine grain  | 0.0        |                      |
| 14         |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 15         |             |                       |             | 12"      |      |         |  | 0.0        | Native Collapse/Sand |

EOB 15'

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE  
(AK) = AIR KNIFE (GS) = GeoSonic  
(SS) = SPLIT SPOON bpf = blows per foot  
(qP) = Penetrometer Unconfined Compressive Strength

**Logged by:** Ira Adolphues  
**Drawn by:** Ira Adolphues  
**Checked by:** Joshua Schyuler

**Borehole Observations After Drilling**  
Immediately after: 10.00'  
4/8/20 - Gauging Event: 7.66'  
Backfill: Well materials

**Drilling Co.:** Job Site Services  
**Drill Rig Type:** Geoprobe 7720DT

(Rec.) = RECOVERY (EOB) = END OF BORING  
(bgs) = Below Ground Surface  
(NR) = NO RECOVERY  
(NA) = NOT APPLICABLE

**Driller:** Ian  
**Assistant:** Trevor



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Phone: (248) 669-5140

**Project Number:** NPDAX19001  
**Project Name:** Detroit Axle  
**Site Location:** 1600 W. 8 Mile Rd.  
**City:** Ferndale, MI 48220  
**Boring Diameter:** 4" HA / 2.25" Macrocore  
**Drilling Method:** Hand Auger / Macrocore/Hollow Auger

# Monitoring Well Boring Log

**Boring ID:** MW-107 **Page:** 1 of 1  
**Start Date:** 03/25/20 **End Date:** 03/25/20  
**Casing:** Schedule 40 PVC  
**Casing Diameter:** 2" **Length:** 7'  
**Screen Slot Size:** 0.010"  
**Screen Diameter:** 2" **Length:** 5'

| FEET (bgs) | SAMPLE TYPE | SAMPLE INTERVAL (bgs) | SAMPLE TIME | Recovery | USCS | Graphic | LITHOLOGY DESCRIPTION                                       | PID (PPMV) | Well Construction    |
|------------|-------------|-----------------------|-------------|----------|------|---------|---|------------|----------------------|
| 0          |             |                       |             | 12"      |      |         | Topsoil   | 0.1        | Concrete Sand        |
| 1          |             |                       |             | 12"      |      |         |   | 0.1        |                      |
| 2          | Soil        | 2-3'                  | 0850        | 12"      |      |         |   | 0.1        |                      |
| 3          |             |                       |             | 12"      | SW   |         | FILL SAND, brown, damp, fine grain                          | 0.1        |                      |
| 4          |             |                       |             | 12"      |      |         |   | 0.1        |                      |
| 5          |             |                       |             | 12"      |      |         |   | 0.1        | Bentonite            |
| 6          |             |                       |             | 12"      |      |         |   | 0.1        |                      |
| 7          | Soil        | 7-8'                  | 0855        | 12"      | SW   |         | SAND, brown, wet at 9', fine grain, medium grain lens at 8' | 0.0        |                      |
| 8          |             |                       |             | 12"      |      |         |   | 0.0        |                      |
| 9          |             |                       |             | 12"      |      |         |   | 0.0        |                      |
| 10         |             |                       |             | 12"      |      |         |   | 0.0        | Sand                 |
| 11         |             |                       |             | 12"      |      |         |   | 0.0        | Screen               |
| 12         |             |                       |             | 12"      | SW   |         | SAND, grey, wet, fine grain                                 | 0.0        |                      |
| 13         |             |                       |             | 12"      |      |         |   | 0.0        |                      |
| 14         |             |                       |             | 12"      |      |         |   | 0.0        |                      |
| 15         |             |                       |             | 12"      |      |         |   | 0.0        | Native Collapse/Sand |
| EOB 15'    |             |                       |             |          |      |         |   |            |                      |

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE  
(AK) = AIR KNIFE (GS) = GeoSonic  
(SS) = SPLIT SPOON bpf = blows per foot  
(qP) = Penetrometer Unconfined Compressive Strength

**Logged by:** Ira Adolphues  
**Drawn by:** Ira Adolphues  
**Checked by:** Joshua Schyuler

**Borehole Observations After Drilling**  
Immediately after: 9.00'  
4/8/20 - Gauging Event: 7.38'  
Backfill: Well materials

**Drilling Co.:** Job Site Services  
**Drill Rig Type:** Geoprobe 7720DT

(Rec.) = RECOVERY (EOB) = END OF BORING  
(bgs) = Below Ground Surface  
(NR) = NO RECOVERY  
(NA) = NOT APPLICABLE

**Driller:** Ian  
**Assistant:** Trevor



46555 Humboldt Drive  
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Phone: (248) 669-5140

**Project Number:** NPDAX19001  
**Project Name:** Detroit Axle  
**Site Location:** 1600 W. 8 Mile Rd.  
**City:** Ferndale, MI 48220  
**Boring Diameter:** 4" HA / 2.25" Macrocore  
**Drilling Method:** Hand Auger / Macrocore/Hollow Auger

# Monitoring Well Boring Log

**Boring ID:** MW-108 **Page:** 1 of 1  
**Start Date:** 03/25/20 **End Date:** 03/25/20  
**Casing:** Schedule 40 PVC  
**Casing Diameter:** 2" **Length:** 5'  
**Screen Slot Size:** 0.010"  
**Screen Diameter:** 2" **Length:** 5'

| FEET (bgs) | SAMPLE TYPE | SAMPLE INTERVAL (bgs) | SAMPLE TIME | Recovery | USCS | Graphic | LITHOLOGY DESCRIPTION  | PID (PPMV) | Well Construction    |
|------------|-------------|-----------------------|-------------|----------|------|---------|--|------------|----------------------|
| 0          |             |                       |             | 12"      |      |         | Topsoil/Leaves   | 0.1        | Concrete             |
| 1          |             |                       |             | 12"      |      |         |  | 0.1        | Sand                 |
| 2          | Soil        | 2-3'                  | 0909        | 12"      |      |         |  | 0.1        |                      |
| 3          |             |                       |             | 12"      | SW   |         | FILL SAND, brown, damp, fine grain, trace roots                      | 0.1        | Bentonite            |
| 4          | Soil        | 4-5'                  | 0915        | 12"      |      |         |  | 0.1        |                      |
| 5          |             |                       |             | 12"      |      |         |  | 0.1        |                      |
| 6          |             |                       |             | 12"      | SW   |         | SAND, brown, saturated at at 6', fine grain, medium grain lens at 7' | 0.1        |                      |
| 7          |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 8          |             |                       |             | 12"      |      |         |  | 0.0        | Screen               |
| 9          |             |                       |             | 12"      |      |         |  | 0.0        | Sand                 |
| 10         |             |                       |             | 12"      | SW   |         | SAND, grey, wet, fine grain  | 0.0        |                      |
| 11         |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 12         |             |                       |             | 12"      |      |         |  | 0.0        | Native Collapse/Sand |
| 13         |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 14         |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 15         |             |                       |             | 12"      |      |         |  | 0.0        |                      |

EOB 15'

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE  
(AK) = AIR KNIFE (GS) = GeoSonic  
(SS) = SPLIT SPOON bpf = blows per foot  
(qP) = Penetrometer Unconfined Compressive Strength

**Logged by:** Ira Adolphues  
**Drawn by:** Ira Adolphues  
**Checked by:** Joshua Schyuler

**Borehole Observations After Drilling**  
Immediately after: 6.00'  
4/8/20 - Gauging Event: 9.97'  
Backfill : Well materials

**Drilling Co.:** Job Site Services  
**Drill Rig Type:** Geoprobe 7720DT

(Rec.) = RECOVERY (EOB) = END OF BORING  
(bgs) = Below Ground Surface  
(NR) = NO RECOVERY  
(NA) = NOT APPLICABLE

**Driller:** Ian  
**Assistant:** Trevor



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Phone: (248) 669-5140

**Project Number:** NPDAX19001  
**Project Name:** Detroit Axle  
**Site Location:** 1600 W. 8 Mile Rd.  
**City:** Ferndale, MI 48220  
**Boring Diameter:** 4" HA / 2.25" Macrocore  
**Drilling Method:** Hand Auger / Macrocore/Hollow Auger

# Monitoring Well Boring Log

**Boring ID:** MW-109 **Page:** 1 of 1  
**Start Date:** 03/25/20 **End Date:** 03/25/20  
**Casing:** Schedule 40 PVC  
**Casing Diameter:** 2" **Length:** 5'  
**Screen Slot Size:** 0.010"  
**Screen Diameter:** 2" **Length:** 5'

| FEET (bgs) | SAMPLE TYPE | SAMPLE INTERVAL (bgs) | SAMPLE TIME | Recovery | USCS | Graphic | LITHOLOGY DESCRIPTION   | PID (PPMV) | Well Construction    |
|------------|-------------|-----------------------|-------------|----------|------|---------|---|------------|----------------------|
| 0          |             |                       |             | 12"      |      |         | Leaves/Topsoil  | 0.1        | Concrete             |
| 1          | Soil        | 1-2'                  | 0935        | 12"      | SW   |         | FILL SAND, brown, damp, fine grain, roots                                 | 1.4        | Sand                 |
| 2          |             |                       |             | 12"      |      |         |   | 1.4        |                      |
| 3          |             |                       |             | 12"      |      |         | FILL SAND, tan, saturated at 6', fine grain                               | 1.3        | Bentonite            |
| 4          | Soil        | 4-5'                  | 0940        | 12"      | SW   |         |   | 1.3        | Sand                 |
| 5          |             |                       |             | 12"      |      |         | 1.3   |            |                      |
| 6          |             |                       |             | 12"      |      |         | SAND, brown to tan, wet, fine grain with medium grain lenses at 7' and 9' | 1.3        | Screen               |
| 7          |             |                       |             | 12"      | SW   |         |   | 0.2        |                      |
| 8          |             |                       |             | 12"      |      |         | SAND, light tan, wet, fine grain  | 0.0        | Native Collapse/Sand |
| 9          |             |                       |             | 12"      | SW   |         |   | 0.0        |                      |
| 10         |             |                       |             | 12"      |      |         |   | 0.0        |                      |
| 11         |             |                       |             | 12"      | SW   |         |   | 0.0        |                      |
| 12         |             |                       |             | 12"      |      |         |   | 0.0        |                      |
| 13         |             |                       |             | 12"      | SW   |         |   | 0.0        |                      |
| 14         |             |                       |             | 12"      |      |         |   | 0.0        |                      |
| 15         |             |                       |             | 12"      | SW   |         |   | 0.0        |                      |

EOB 15'

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE  
(AK) = AIR KNIFE (GS) = GeoSonic  
(SS) = SPLIT SPOON bpf = blows per foot  
(qP) = Penetrometer Unconfined Compressive Strength

**Logged by:** Ira Adolphues  
**Drawn by:** Ira Adolphues  
**Checked by:** Joshua Schyuler

### Borehole Observations After Drilling

Immediately after: 6.00'

4/8/20 - Gauging Event: 5.69'

Backfill: Well materials

Drilling Co.: Job Site Services

Drill Rig Type: Geoprobe 7720DT

(Rec.) = RECOVERY

(bgs) = Below Ground Surface

(NR) = NO RECOVERY

(NA) = NOT APPLICABLE

(EOB) = END OF BORING

Driller: Ian

Assistant: Trevor



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Suite 100  
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**Project Number:** NPDAX19001  
**Project Name:** Detroit Axle  
**Site Location:** 1600 W. 8 Mile Rd.  
**City:** Ferndale, MI 48220  
**Boring Diameter:** 4" HA / 2.25" Macrocore  
**Drilling Method:** Hand Auger / Macrocore/Hollow Auger

# Monitoring Well Boring Log

**Boring ID:** MW-110 **Page:** 1 of 1  
**Start Date:** 03/25/20 **End Date:** 03/25/20  
**Casing:** Schedule 40 PVC  
**Casing Diameter:** 2" **Length:** 5'  
**Screen Slot Size:** 0.010"  
**Screen Diameter:** 2" **Length:** 5'

| FEET (bgs) | SAMPLE TYPE | SAMPLE INTERVAL (bgs) | SAMPLE TIME | Recovery | USCS | Graphic | LITHOLOGY DESCRIPTION                              | PID (PPMV) | Well Construction    |  |
|------------|-------------|-----------------------|-------------|----------|------|---------|--|------------|----------------------|--|
| 0          |             |                       |             | 12"      |      |         | Leaves/Topsoil                                     | 0.0        | Concrete             |  |
| 1          | Soil        | 1-2'                  | 1000        | 12"      |      |         |  | 0.1        | Sand                 |  |
| 2          |             |                       |             | 12"      |      |         |  | 0.0        |                      |  |
| 3          |             |                       |             | 12"      | SW   |         | FILL SAND, brown, damp, fine grain                 | 0.0        | Bentonite            |  |
| 4          | Soil        | 4-5'                  | 1005        | 12"      |      |         |  | 0.0        |                      |  |
| 5          |             |                       |             | 12"      |      |         |  | 0.0        | Sand                 |  |
| 6          |             |                       |             | 12"      |      |         |  | 0.0        |                      |  |
| 7          |             |                       |             | 12"      | SW   |         | SAND, brown, saturated at 6', medium to fine grain | 0.0        | Screen               |  |
| 8          |             |                       |             | 12"      |      |         |  | 0.0        |                      |  |
| 9          |             |                       |             | 12"      |      |         |  | 0.0        |                      |  |
| 10         |             |                       |             | 12"      |      |         |  | 0.0        |                      |  |
| 11         |             |                       |             | 12"      |      |         |  | 0.0        |                      |  |
| 12         |             |                       |             | 12"      | SW   |         | SAND, grey, wet, medium to fine grain              | 0.0        | Native Collapse/Sand |  |
| 13         |             |                       |             | 12"      |      |         |  | 0.0        |                      |  |
| 14         |             |                       |             | 12"      |      |         |  | 0.0        |                      |  |
| 15         |             |                       |             | 12"      |      |         |  | 0.0        |                      |  |
|            |             |                       |             |          |      |         | EOB 15'  |            |                      |  |

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE  
(AK) = AIR KNIFE (GS) = GeoSonic  
(SS) = SPLIT SPOON bpf = blows per foot  
(qP) = Penetrometer Unconfined Compressive Strength

**Logged by:** Ira Adolphues  
**Drawn by:** Ira Adolphues  
**Checked by:** Joshua Schyuler

**Borehole Observations After Drilling**  
Immediately after: 6.00'  
4/8/20 - Gauging Event: 5.76'  
Backfill: Well materials

**Drilling Co.:** Job Site Services  
**Drill Rig Type:** Geoprobe 7720DT

(Rec.) = RECOVERY (EOB) = END OF BORING  
(bgs) = Below Ground Surface  
(NR) = NO RECOVERY  
(NA) = NOT APPLICABLE

**Driller:** Ian  
**Assistant:** Trevor





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**Project Number:** NPDAX19001  
**Project Name:** Detroit Axle  
**Site Location:** 1600 W. 8 Mile Rd.  
**City:** Ferndale, MI 48220  
**Boring Diameter:** 4" HA / 2.25" Macrocore  
**Drilling Method:** Hand Auger / Macrocore/Hollow Auger

# Monitoring Well Boring Log

**Boring ID:** MW-111 **Page:** 1 of 1  
**Start Date:** 03/25/20 **End Date:** 03/25/20  
**Casing:** Schedule 40 PVC  
**Casing Diameter:** 2" **Length:** 4'  
**Screen Slot Size:** 0.010"  
**Screen Diameter:** 2" **Length:** 5'

| FEET (bgs) | SAMPLE TYPE | SAMPLE INTERVAL (bgs) | SAMPLE TIME | Recovery | USCS | Graphic | LITHOLOGY DESCRIPTION   | PID (PPMV) | Well Construction    |  |
|------------|-------------|-----------------------|-------------|----------|------|---------|---|------------|----------------------|--|
| 0          |             |                       |             | 12"      |      |         | Leaves/Topsoil  | 0.0        | Concrete             |  |
| 1          |             |                       |             | 12"      |      |         |   | 0.1        | Sand                 |  |
| 2          |             |                       |             | 12"      |      |         |   | 0.1        | Bentonite            |  |
| 3          | Soil        | 3-4'                  | 1030        | 12"      | SW   |         | FILL SAND, reddish brown, damp, medium to fine grain, trace roots | 0.1        |                      |  |
| 4          |             |                       |             | 12"      |      |         |   | 0.1        |                      |  |
| 5          |             |                       |             | 12"      |      |         |   | 0.1        | Sand                 |  |
| 6          |             |                       |             | 12"      |      |         |   | 0.1        |                      |  |
| 7          |             |                       |             | 12"      | SW   |         | SAND, brown, saturated at 6', medium grain                        | 0.0        | Screen               |  |
| 8          |             |                       |             | 12"      |      |         |   | 0.0        |                      |  |
| 9          |             |                       |             | 12"      |      |         |   | 0.0        |                      |  |
| 10         |             |                       |             | 12"      |      |         |   | 0.0        |                      |  |
| 11         |             |                       |             | 12"      | SW   |         | SAND, grey, wet, fine grain                                       | 0.0        | Native Collapse/Sand |  |
| 12         |             |                       |             | 12"      |      |         |   | 0.0        |                      |  |
| 13         |             |                       |             | 12"      |      |         |   | 0.0        |                      |  |
| 14         |             |                       |             | 12"      |      |         |   | 0.0        |                      |  |
| 15         |             |                       |             | 12"      |      |         |   | 0.0        |                      |  |
|            |             |                       |             |          |      |         | EOB 15'   |            |                      |  |

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE  
(AK) = AIR KNIFE (GS) = GeoSonic  
(SS) = SPLIT SPOON bpf = blows per foot  
(qP) = Penetrometer Unconfined Compressive Strength

**Logged by:** Ira Adolphues  
**Drawn by:** Ira Adolphues  
**Checked by:** Joshua Schyuler

**Borehole Observations After Drilling**  
Immediately after: 6.00'  
4/8/20 - Gauging Event: 5.26'  
Backfill: Well materials

**Drilling Co.:** Job Site Services  
**Drill Rig Type:** Geoprobe 7720DT

(Rec.) = RECOVERY (EOB) = END OF BORING  
(bgs) = Below Ground Surface  
(NR) = NO RECOVERY  
(NA) = NOT APPLICABLE

**Driller:** Ian  
**Assistant:** Trevor



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Phone: (248) 669-5140

**Project Number:** NPDAX19001  
**Project Name:** Detroit Axle  
**Site Location:** 1600 W. 8 Mile Rd.  
**City:** Ferndale, MI 48220  
**Boring Diameter:** 4" HA / 2.25" Macrocore  
**Drilling Method:** Hand Auger / Macrocore/Hollow Auger

# Monitoring Well Boring Log

**Boring ID:** MW-112 **Page:** 1 of 1  
**Start Date:** 03/25/20 **End Date:** 03/25/20  
**Casing:** Schedule 40 PVC  
**Casing Diameter:** 2" **Length:** 4'  
**Screen Slot Size:** 0.010"  
**Screen Diameter:** 2" **Length:** 5'

| FEET (bgs) | SAMPLE TYPE | SAMPLE INTERVAL (bgs) | SAMPLE TIME | Recovery | USCS | Graphic | LITHOLOGY DESCRIPTION                                      | PID (PPMV) | Well Construction    |
|------------|-------------|-----------------------|-------------|----------|------|---------|--|------------|----------------------|
| 0          |             |                       |             |          |      |         | Leaves/Topsoil   | 0.0        | Concrete             |
| 1          |             |                       |             | 12"      |      |         |  | 0.1        | Sand                 |
| 2          |             |                       |             | 12"      |      |         |  | 0.1        | Bentonite            |
| 3          | Soil        | 3-4'                  | 1050        | 12"      | SW   | ▼       | FILL SAND, brown, damp, medium to fine grain, trace roots  | 0.1        | Sand                 |
| 4          |             |                       |             | 0.1      |      |         |  |            |                      |
| 5          |             |                       |             | 0.1      |      |         |  |            |                      |
| 6          |             |                       |             | 0.1      |      |         |  |            |                      |
| 7          |             |                       |             | 12"      |      |         | 0.0  | Screen     |                      |
| 8          |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 9          |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 10         |             |                       |             | 12"      | SW   | ▼       | SAND, brown to grey, saturated at 6', medium to fine grain | 0.0        | Native Collapse/Sand |
| 11         |             |                       | 12"         | 0.0      |      |         |  |            |                      |
| 12         |             |                       | 12"         | 0.0      |      |         |  |            |                      |
| 13         |             |                       | 12"         | 0.0      |      |         |  |            |                      |
| 14         |             |                       | 12"         | 0.0      |      |         |  |            |                      |
| 15         |             |                       | 12"         | 0.0      |      |         |  |            |                      |
| EOB 15'    |             |                       |             |          |      |         |  |            |                      |

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE  
(AK) = AIR KNIFE (GS) = GeoSonic  
(SS) = SPLIT SPOON bpf = blows per foot  
(qP) = Penetrometer Unconfined Compressive Strength

**Logged by:** Ira Adolphues  
**Drawn by:** Ira Adolphues  
**Checked by:** Joshua Schyuler

**Borehole Observations After Drilling**  
Immediately after: 6.00'  
4/8/20 - Gauging Event: 4.51'  
Backfill : Well materials

**Drilling Co.:** Job Site Services  
**Drill Rig Type:** Geoprobe 7720DT

(Rec.) = RECOVERY (EOB) = END OF BORING  
(bgs) = Below Ground Surface  
(NR) = NO RECOVERY  
(NA) = NOT APPLICABLE

**Driller:** Ian  
**Assistant:** Trevor



46555 Humboldt Drive  
Suite 100  
Novi, MI 48377  
Phone: (248) 669-5140

**Project Number:** NPDAX19001  
**Project Name:** Detroit Axle  
**Site Location:** 1600 W. 8 Mile Rd.  
**City:** Ferndale, MI 48220  
**Boring Diameter:** 4" HA / 2.25" Macrocore  
**Drilling Method:** Hand Auger / Macrocore/Hollow Auger

# Monitoring Well Boring Log

**Boring ID:** MW-113 **Page:** 1 of 1  
**Start Date:** 03/23/20 **End Date:** 03/24/20  
**Casing:** Schedule 40 PVC  
**Casing Diameter:** 2" **Length:** 8'  
**Screen Slot Size:** 0.010"  
**Screen Diameter:** 2" **Length:** 5'

| FEET (bgs) | SAMPLE TYPE | SAMPLE INTERVAL (bgs) | SAMPLE TIME | Recovery | USCS | Graphic | LITHOLOGY DESCRIPTION                          | PID (PPMV) | Well Construction    |
|------------|-------------|-----------------------|-------------|----------|------|---------|--|------------|----------------------|
| 0          |             |                       |             | 12"      |      |         | Topsoil  | 0.0        | Concrete Sand        |
| 1          |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 2          | Soil        | 2-3'                  | 1550        | 12"      | SW   |         | FILL SAND, dark brown, damp, fine grain, roots | 0.0        |                      |
| 3          |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 4          |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 5          |             |                       |             | 12"      | SW   |         | FILL SAND, brown, damp, fine grain             | 0.0        | Bentonite            |
| 6          |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 7          | Soil        | 7-8'                  | 0945        | 12"      | SW   |         | SAND, brown, damp, fine grained                | 0.0        |                      |
| 8          |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 9          |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 10         |             |                       |             | 12"      | SW   |         | SAND, tan, saturated at 10', fine grain        | 0.0        | Sand                 |
| 11         |             |                       |             | 12"      |      |         |  | 0.0        | Screen               |
| 12         |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 13         |             |                       |             | 12"      | SW   |         | SAND, grey, wet, fine grain                    | 0.0        |                      |
| 14         |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 15         |             |                       |             | 12"      |      |         |  | 0.0        | Native Collapse/Sand |

EOB 15'

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE  
(AK) = AIR KNIFE (GS) = GeoSonic  
(SS) = SPLIT SPOON bpf = blows per foot  
(qP) = Penetrometer Unconfined Compressive Strength

**Logged by:** Ira Adolphues  
**Drawn by:** Ira Adolphues  
**Checked by:** Joshua Schyuler

**Borehole Observations After Drilling**  
Immediately after: 10.00'  
4/8/20 - Gauging Event: 7.77'  
Backfill: Well materials

**Drilling Co.:** Job Site Services  
**Drill Rig Type:** Geoprobe 7720DT

(Rec.) = RECOVERY (EOB) = END OF BORING  
(bgs) = Below Ground Surface  
(NR) = NO RECOVERY  
(NA) = NOT APPLICABLE

**Driller:** Ian  
**Assistant:** Trevor



46555 Humboldt Drive  
Suite 100  
Novi, MI 48377  
Phone: (248) 669-5140

**Project Number:** NPDAX19001  
**Project Name:** Detroit Axle  
**Site Location:** 1600 W. 8 Mile Rd.  
**City:** Ferndale, MI 48220  
**Boring Diameter:** 4" HA / 2.25" Macrocore  
**Drilling Method:** Hand Auger / Macrocore/Hollow Auger

# Monitoring Well Boring Log

**Boring ID:** MW-114 **Page:** 1 of 1  
**Start Date:** 03/23/20 **End Date:** 03/24/20  
**Casing:** Schedule 40 PVC  
**Casing Diameter:** 2" **Length:** 8'  
**Screen Slot Size:** 0.010"  
**Screen Diameter:** 2" **Length:** 5'

| FEET (bgs) | SAMPLE TYPE | SAMPLE INTERVAL (bgs) | SAMPLE TIME | Recovery | USCS | Graphic | LITHOLOGY DESCRIPTION  | PID (PPMV) | Well Construction    |
|------------|-------------|-----------------------|-------------|----------|------|---------|--|------------|----------------------|
| 0          |             |                       |             | 12"      |      |         | Grass  | 0.0        |                      |
| 1          |             |                       |             | 12"      | ML   |         | SANDY CLAY, brown, damp, soft, high plasticity, brick and concrete pieces  | 0.0        | Concrete Sand        |
| 2          |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 3          | Soil        | 3-4'                  | 1100        | 12"      | OH   |         | SILTY CLAY, brown, damp, soft, high plasticity, brick and concrete pieces  | 0.0        |                      |
| 4          |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 5          |             |                       |             | 12"      |      |         |  | 0.0        | Bentonite            |
| 6          |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 7          |             |                       |             | 12"      | OH   |         | CLAY, dark brown, damp, hard, oil staining, high plasticity, brick and concrete pieces size 1/2"-1", sand lens at 8-9', wet at 10' | 0.0        |                      |
| 8          | Soil        | 8-9'                  | 1110        | 12"      |      |         |  | 0.0        |                      |
| 9          |             |                       |             | 12"      |      |         |  | 0.0        | Sand                 |
| 10         |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 11         |             |                       |             | 12"      | ML   |         | SANDY CLAY, brown, damp, soft, high plasticity, debris (brick and concrete pieces size 1/2"-1")                                    | 0.0        | Screen               |
| 12         |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 13         |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 14         |             |                       |             | 12"      | ML   |         | SANDY CLAY, brown/black, moist, soft, light oil staining, high plasticity  | 0.0        | Native Collapse/Sand |
| 15         |             |                       |             | 12"      |      |         |  | 0.0        |                      |

EOB 15'

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE  
(AK) = AIR KNIFE (GS) = GeoSonic  
(SS) = SPLIT SPOON bpf = blows per foot  
(qP) = Penetrometer Unconfined Compressive Strength

**Logged by:** Ira Adolphues  
**Drawn by:** Ira Adolphues  
**Checked by:** Joshua Schyuler

**Borehole Observations After Drilling**

**Immediately after:** 10.00'  
**4/8/20 - Gauging Event:** 7.70'  
**Backfill:** Well materials

**Drilling Co.:** Job Site Services  
**Drill Rig Type:** Geoprobe 7720DT

(Rec.) = RECOVERY (EOB) = END OF BORING  
(bgs) = Below Ground Surface  
(NR) = NO RECOVERY  
(NA) = NOT APPLICABLE

**Driller:** Ian  
**Assistant:** Trevor



46555 Humboldt Drive  
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Novi, MI 48377  
Phone: (248) 669-5140

**Project Number:** NPDAX19001  
**Project Name:** Detroit Axle  
**Site Location:** 1600 W. 8 Mile Rd.  
**City:** Ferndale, MI 48220  
**Boring Diameter:** 4" HA / 2.25" Macrocore  
**Drilling Method:** Hand Auger / Macrocore/Hollow Auger

## Monitoring Well Boring Log

**Boring ID:** MW-115 **Page:** 1 of 1  
**Start Date:** 03/23/20 **End Date:** 03/24/20  
**Casing:** Schedule 40 PVC  
**Casing Diameter:** 2" **Length:** 7.5'  
**Screen Slot Size:** 0.010"  
**Screen Diameter:** 2" **Length:** 5'

| FEET (bgs) | SAMPLE TYPE | SAMPLE INTERVAL (bgs)  | SAMPLE TIME | Recovery   | USCS | Graphic              | LITHOLOGY DESCRIPTION   | PID (PPMV) | Well Construction |
|------------|-------------|--|-------------|--|------|----------------------|---|------------|-------------------|
| 0          |             |  |             |  |      |                      | Topsoil   | 0.0        | Concrete          |
| 1          | Soil        | 2-3'   | 1215        | 12"  | CH   |                      | CLAY, brown, damp, stiff, high plasticity, debris (brick size 1/2"-1")                      | 0.0        | Sand              |
| 2          |             |  |             | 12"  |      |                      | SILTY CLAY, brown, damp, soft, high plasticity, debris (brick size 1/2" - 1")               | 0.0        |                   |
| 3          |             |  |             | 12"  | CL   |                      | SILTY CLAY, brown, damp, soft, high plasticity, debris (brick size 1/2" - 1")               | 0.0        |                   |
| 4          |             |  |             | 12"  |      |                      | CLAY, brown with light grey mottling, hard, damp, low plasticity, trace gravel              | 7.1        |                   |
| 5          | Soil        | 7-8'   | 1220        | 12"  | CH   |                      | CLAY, brown with light grey mottling, hard, damp, low plasticity, trace gravel              | 7.1        | Bentonite         |
| 6          |             |  |             | 12"  |      |                      | SAND, black, damp, light odor, medium grain   | 20.6       |                   |
| 7          |             |  |             | 12"  | SW   |                      | SAND, black, damp, light odor, medium grain   | 20.6       |                   |
| 8          |             |  |             | 12"  |      |                      | SANDY CLAY, grey, damp, soft, black oil staining, light odor, high plasticity, trace gravel | 19.9       | Sand              |
| 9          |             |  |             | 12"  | ML   |                      | SANDY CLAY, grey, damp, soft, black oil staining, light odor, high plasticity, trace gravel | 19.9       |                   |
| 10         |             |  |             | 12"  |      |                      | PEASTONE, black, saturated at 10', brick and concrete pieces size 1/2" - 1", strong odor    | 65.7       | Screen            |
| 11         | 12"         | PEASTONE, black, saturated at 10', brick and concrete pieces size 1/2" - 1", strong odor | 65.7        |  |      |                      |   |            |                   |
| 12         | 12"         | ML   |             | SANDY CLAY, grey with black oil staining, moist, soft, high plasticity, trace gravel | 65.7 | Native Collapse/Sand |   |            |                   |
| 13         | 12"         |  |             | SANDY CLAY, grey with black oil staining, moist, soft, high plasticity, trace gravel | 5.7  |                      |   |            |                   |
| 14         | 12"         |  |             | SANDY CLAY, grey with black oil staining, moist, soft, high plasticity, trace gravel | 5.7  |                      |   |            |                   |
| 15         | EOB 15'     |  |             |  |      |                      |   |            |                   |

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE  
(AK) = AIR KNIFE (GS) = GeoSonic  
(SS) = SPLIT SPOON bpf = blows per foot  
(qP) = Penetrometer Unconfined Compressive Strength

**Logged by:** Ira Adolphues  
**Drawn by:** Ira Adolphues  
**Checked by:** Joshua Schyuler

### Borehole Observations After Drilling

**Immediately after:** 10.00'  
**4/8/20 - Gauging Event:** 4.80'  
**Backfill:** Well materials

**Drilling Co.:** Job Site Services  
**Drill Rig Type:** Geoprobe 7720DT

(Rec.) = RECOVERY (EOB) = END OF BORING  
(bgs) = Below Ground Surface  
(NR) = NO RECOVERY  
(NA) = NOT APPLICABLE

**Driller:** Ian  
**Assistant:** Trevor



46555 Humboldt Drive  
Suite 100  
Novi, MI 48377  
Phone: (248) 669-5140

**Project Number:** NPDAX19001  
**Project Name:** Detroit Axle  
**Site Location:** 1600 W. 8 Mile Rd.  
**City:** Ferndale, MI 48220  
**Boring Diameter:** 4" HA / 2.25" Macrocore  
**Drilling Method:** Hand Auger / Macrocore/Hollow Auger

# Monitoring Well Boring Log

**Boring ID:** MW-116 **Page:** 1 of 1  
**Start Date:** 03/30/20 **End Date:** 03/30/20  
**Casing:** Schedule 40 PVC  
**Casing Diameter:** 2" **Length:** 8'  
**Screen Slot Size:** 0.010"  
**Screen Diameter:** 2" **Length:** 5'

| FEET (bgs) | SAMPLE TYPE | SAMPLE INTERVAL (bgs) | SAMPLE TIME | Recovery | USCS | Graphic | LITHOLOGY DESCRIPTION   | PID (PPMV) | Well Construction    |
|------------|-------------|-----------------------|-------------|----------|------|---------|---|------------|----------------------|
| 0          |             |                       |             | 12"      |      |         | Grass/Topsoil   | 0.1        | Concrete Sand        |
| 1          |             |                       |             | 12"      |      |         |   | 0.1        | Sand                 |
| 2          | Soil        | 2-3'                  | 1030        | 12"      | SW   |         | FILL SAND, brown to tan, damp, medium to fine grain, trace roots/organic matter | 0.1        | Bentonite            |
| 3          |             |                       |             |          |      |         |   |            |                      |
| 4          |             |                       |             | 12"      |      |         |   | 0.1        |                      |
| 5          |             |                       |             | 12"      |      |         |   | 0.1        |                      |
| 6          |             |                       |             | 12"      |      |         |   | 0.1        |                      |
| 7          | Soil        | 7-8'                  | 1040        | 12"      | SW   |         | SAND, brown, damp, fine grain   | 0.0        |                      |
| 8          |             |                       |             |          |      |         |   |            |                      |
| 9          |             |                       |             | 12"      |      |         |   | 0.0        |                      |
| 10         |             |                       |             | 12"      |      |         |   | 0.0        | Sand                 |
| 11         |             |                       |             | 12"      |      |         |   | 0.0        |                      |
| 12         |             |                       |             | 12"      | SW   |         | SAND, light brown, wet at 9', fine grain  | 0.0        | Screen               |
| 13         |             |                       |             | 12"      |      |         |   | 0.0        |                      |
| 14         |             |                       |             | 12"      |      |         |   | 0.0        | Native Collapse/Sand |
| 15         |             |                       |             | 12"      |      |         |   | 0.0        |                      |

EOB 15'

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE  
(AK) = AIR KNIFE (GS) = GeoSonic  
(SS) = SPLIT SPOON bpf = blows per foot  
(qP) = Penetrometer Unconfined Compressive Strength

**Logged by:** Ira Adolphues  
**Drawn by:** Ira Adolphues  
**Checked by:** Joshua Schyuler

**Borehole Observations After Drilling**  
Immediately after: 9.00'  
4/8/20 - Gauging Event: 6.77'  
Backfill: Well materials

**Drilling Co.:** Job Site Services  
**Drill Rig Type:** Geoprobe 7720DT

(Rec.) = RECOVERY (EOB) = END OF BORING  
(bgs) = Below Ground Surface  
(NR) = NO RECOVERY  
(NA) = NOT APPLICABLE

**Driller:** Ian  
**Assistant:** Trevor



46555 Humboldt Drive  
Suite 100  
Novi, MI 48377  
Phone: (248) 669-5140

**Project Number:** NPDAX19001  
**Project Name:** Detroit Axle  
**Site Location:** 1600 W. 8 Mile Rd.  
**City:** Ferndale, MI 48220  
**Boring Diameter:** 4" HA / 2.25" Macrocore  
**Drilling Method:** Hand Auger / Macrocore/Hollow Auger

# Monitoring Well Boring Log

**Boring ID:** MW-117 **Page:** 1 of 1  
**Start Date:** 03/30/20 **End Date:** 03/30/20  
**Casing:** Schedule 40 PVC  
**Casing Diameter:** 2" **Length:** 7.5'  
**Screen Slot Size:** 0.010"  
**Screen Diameter:** 2" **Length:** 5'

| FEET (bgs) | SAMPLE TYPE | SAMPLE INTERVAL (bgs) | SAMPLE TIME | Recovery | USCS | Graphic | LITHOLOGY DESCRIPTION  | PID (PPMV) | Well Construction    |
|------------|-------------|-----------------------|-------------|----------|------|---------|--|------------|----------------------|
| 0          |             |                       |             | 12"      |      |         | Grass/Topsoil  | 0.1        | Concrete Sand        |
| 1          | Soil        | 2-3'                  | 1110        | 12"      | SW   |         | FILL SAND, brown, damp, medium to fine grain, trace roots/organic matter | 0.1        | Bentonite            |
| 2          |             |                       |             | 12"      |      |         |  | 0.1        |                      |
| 3          |             |                       |             | 12"      |      |         |  | 0.1        |                      |
| 4          |             |                       |             | 12"      | SW   |         | FILL SAND, brown, damp, fine grain                                       | 0.1        |                      |
| 5          |             |                       | 12"         | 0.1      |      |         |  |            |                      |
| 6          | Soil        | 6-7'                  | 1120        | 12"      |      |         |  | SW         |                      |
| 7          |             |                       |             | 12"      | 0.0  |         |  |            |                      |
| 8          |             |                       |             | 12"      | 0.0  |         |  |            |                      |
| 9          |             |                       |             | 12"      | SW   |         | SAND, light brown, wet at 8', fine grain                                 | 0.0        |                      |
| 10         |             |                       | 12"         | 0.0      |      |         |  |            |                      |
| 11         |             |                       | 12"         | 0.0      |      |         |  |            |                      |
| 12         |             |                       |             | 12"      |      |         |  | 0.0        | Sand                 |
| 13         |             |                       |             | 12"      |      |         |  | 0.0        | Screen               |
| 14         |             |                       |             | 12"      |      |         |  | 0.0        | Native Collapse/Sand |
| 15         |             |                       |             | 12"      |      |         |  | 0.0        |                      |

EOB 15'

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE  
(AK) = AIR KNIFE (GS) = GeoSonic  
(SS) = SPLIT SPOON bpf = blows per foot  
(qP) = Penetrometer Unconfined Compressive Strength

**Logged by:** Ira Adolphues  
**Drawn by:** Ira Adolphues  
**Checked by:** Joshua Schyuler

### Borehole Observations After Drilling

Immediately after: 8.00'

4/8/20 - Gauging Event: 8.17'

Backfill: Well materials

**Drilling Co.:** Job Site Services  
**Drill Rig Type:** Geoprobe 7720DT

(Rec.) = RECOVERY (EOB) = END OF BORING  
(bgs) = Below Ground Surface  
(NR) = NO RECOVERY  
(NA) = NOT APPLICABLE

**Driller:** Ian  
**Assistant:** Trevor



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Novi, MI 48377  
Phone: (248) 669-5140

**Project Number:** NPDA19001  
**Project Name:** Detroit Axle  
**Site Location:** 1600 W. 8 Mile Rd.  
**City:** Ferndale, MI 48220  
**Boring Diameter:** 4" HA / 2.25" Macrocore  
**Drilling Method:** Hand Auger / Macrocore/Hollow Auger

## Monitoring Well Boring Log

**Boring ID:** MW-118 **Page:** 1 of 1  
**Start Date:** 03/30/20 **End Date:** 03/30/20  
**Casing:** Schedule 40 PVC  
**Casing Diameter:** 2" **Length:** 11'  
**Screen Slot Size:** 0.010"  
**Screen Diameter:** 2" **Length:** 5'

| FEET (bgs) | SAMPLE TYPE | SAMPLE INTERVAL (bgs) | SAMPLE TIME | Recovery | USCS | Graphic | LITHOLOGY DESCRIPTION  | PID (PPMV) | Well Construction |
|------------|-------------|-----------------------|-------------|----------|------|---------|--|------------|-------------------|
| 0          |             |                       |             | 12"      |      |         | Grass/Topsoil  | 0.0        | Concrete          |
| 1          |             |                       |             | 12"      | SW   |         | FILL SAND, brown, damp, roots/organic matter                   | 0.0        | Sand              |
| 2          | Soil        | 2-3'                  | 1200        | 12"      |      |         | FILL SAND, reddish brown to tan, damp, fine grain, trace roots | 0.0        | Bentonite         |
| 3          |             |                       |             | 12"      | SW   | 0.0     |  |            |                   |
| 4          |             |                       |             | 12"      |      |         | SAND, brown, damp, medium to fine grain                        | 0.0        |                   |
| 5          |             |                       |             | 12"      |      |         |  | 0.0        |                   |
| 6          |             |                       |             | 12"      |      |         |  | 0.0        |                   |
| 7          |             |                       |             | 12"      |      |         | SAND, grey, wet at 12', medium to fine grain                   | 0.0        |                   |
| 8          |             |                       |             | 12"      |      |         |  | 0.0        |                   |
| 9          |             |                       |             | 12"      | SW   |         |  | 0.0        |                   |
| 10         | Soil        | 10-11'                | 1210        | 12"      |      |         |  | 0.0        |                   |
| 11         |             |                       |             | 12"      |      | 0.0     |  |            |                   |
| 12         |             |                       |             | 12"      |      |         |  | 0.0        | Screen            |
| 13         |             |                       |             | 12"      |      |         | SAND, grey, wet at 12', medium to fine grain                   | 0.0        |                   |
| 14         |             |                       |             | 12"      |      |         |  | 0.0        |                   |
| 15         |             |                       |             | 12"      | SW   |         |  | 0.0        | Sand              |
| 16         |             |                       |             | 12"      |      |         |  | 0.0        |                   |

EOB 16'

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE  
(AK) = AIR KNIFE (GS) = GeoSonic  
(SS) = SPLIT SPOON bpf = blows per foot  
(qP) = Penetrometer Unconfined Compressive Strength

**Logged by:** Ira Adolphus  
**Drawn by:** Ira Adolphus  
**Checked by:** Joshua Schyuler

### Borehole Observations After Drilling

Immediately after: 12.00'

4/8/20 - Gauging Event: 11.56'

Backfill: Well materials

**Drilling Co.:** Job Site Services  
**Drill Rig Type:** Geoprobe 7720DT

(Rec.) = RECOVERY (EOB) = END OF BORING  
(bgs) = Below Ground Surface  
(NR) = NO RECOVERY  
(NA) = NOT APPLICABLE

**Driller:** Ian  
**Assistant:** Trevor





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Phone: (248) 669-5140

**Project Number:** NPDX19001  
**Project Name:** Detroit Axle  
**Site Location:** 1600 W. 8 Mile Rd.  
**City:** Ferndale, MI 48220  
**Boring Diameter:** 4" HA / 2.25" Macrocore  
**Drilling Method:** Hand Auger / Macrocore

# Monitoring Well Boring Log

**Boring ID:** MW-119 **Page:** 1 of 1  
**Start Date:** 04/21/20 **End Date:** 04/21/20  
**Casing:** Schedule 40 PVC  
**Casing Diameter:** 2" **Length:** 5'  
**Screen Slot Size:** 0.010"  
**Screen Diameter:** 2" **Length:** 5'

| FEET (bgs) | SAMPLE TYPE | SAMPLE INTERVAL (bgs) | SAMPLE TIME | Recovery | USCS | Graphic | LITHOLOGY DESCRIPTION  | PID (PPMV) | Well Construction |
|------------|-------------|-----------------------|-------------|----------|------|---------|--|------------|-------------------|
| 0          |             |                       |             |          |      |         | Topsoil  | 0.0        | Concrete          |
| 1          |             |                       |             | 12"      |      |         |  | 0.0        | Sand              |
| 2          | Soil        | 2'- 3'                | 1305        | 12"      | SW   |         | FILL SAND, dark brown, damp, medium grained, abundant roots, | 0.0        |                   |
| 3          |             |                       |             | 12"      |      |         |  | 35.1       | Bentonite         |
| 4          |             |                       |             | 12"      |      |         |  | 35.1       |                   |
| 5          |             |                       |             | 12"      | SW   |         | SAND, tan/brown, damp, medium grained,                       | 35.1       | Screen            |
| 6          | Soil        | 6'- 7'                | 1315        | 12"      |      |         |  | 35.1       |                   |
| 7          |             |                       |             | 12"      |      |         |  | 35.1       | Sand              |
| 8          |             |                       |             | 12"      | SW   |         | SAND, tan/brown, saturated, medium- fine grained,            | 0.0        |                   |
| 9          |             |                       |             | 12"      |      |         |  | 0.0        |                   |
| 10         |             |                       |             |          |      |         | EOB 10'  | 0.0        |                   |

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE  
(AK) = AIR KNIFE (GS) = GeoSonic  
(SS) = SRLIT SPOON bpf = blows per foot  
(qP) = Penetrometer Unconfined Compressive Strength

**Logged by:** Spencer Overbeck  
**Drawn by:** Spencer Overbeck  
**Checked by:** Josh Schuyler

**Borehole Observations After Drilling**

**Immediately after:** 7.00'

**4/23/20 - Gauging Event:** 6.42'

**Backfill:** Well materials

**Drilling Co.:** Alluvial Earth

**Drill Rig Type:** Geoprobe 66DT

(Rec.) = RECOVERY (EOB) = END OF BORING  
(bgs) = Below Ground Surface  
(NR) = NO RECOVERY  
(NA) = NOT APPLICABLE

**Driller:** Ryan

**Assistant:** N/A



46555 Humboldt Drive  
Suite 100  
Novi, MI 48377  
Phone: (248) 669-5140

**Project Number:** NPDX19001  
**Project Name:** Detroit Axle  
**Site Location:** 1600 W. 8 Mile Rd.  
**City:** Ferndale, MI 48220  
**Boring Diameter:** 4" HA / 2.25" Macrocore  
**Drilling Method:** Hand Auger / Macrocore

# Monitoring Well Boring Log

**Boring ID:** MW-120 **Page:** 1 of 1  
**Start Date:** 04/21/20 **End Date:** 04/21/20  
**Casing:** Schedule 40 PVC  
**Casing Diameter:** 2" **Length:** 3'  
**Screen Slot Size:** 0.010"  
**Screen Diameter:** 2" **Length:** 5'

| FEET (bgs) | SAMPLE TYPE | SAMPLE INTERVAL (bgs) | SAMPLE TIME | Recovery | USCS | Graphic | LITHOLOGY DESCRIPTION  | PID (PPMV) | Well Construction    |
|------------|-------------|-----------------------|-------------|----------|------|---------|--|------------|----------------------|
| 0          |             |                       |             | 12"      |      |         | Topsoil  | 0.0        | Concrete             |
| 1          |             |                       |             | 12"      |      |         |  | 0.0        | Sand                 |
| 2          | Soil        | 2'- 3'                | 1215        | 12"      | SW   |         |  | 0.0        | Bentonite            |
| 3          |             |                       |             | 12"      |      |         | FILL SAND, dark brown, damp, medium grained, abundant roots, | 0.0        |                      |
| 4          |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 5          | Soil        | 4'- 5'                | 1220        | 12"      |      | ▼       |  | 0.0        | Screen               |
| 6          |             |                       |             | 12"      |      |         |  | 0.0        | Sand                 |
| 7          |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 8          |             |                       |             | 12"      | SW   |         | SAND, tan/brown, saturated, medium to fine grained,          | 0.0        |                      |
| 9          |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 10         |             |                       |             | 12"      |      |         |  | 0.0        | Native Collapse/Sand |

EOB 10'

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE  
(AK) = AIR KNIFE (GS) = GeoSonic  
(SS) = SPLIT SPOON bpf = blows per foot  
(qP) = Penetrometer Unconfined Compressive Strength

**Logged by:** Spencer Overbeck  
**Drawn by:** Spencer Overbeck  
**Checked by:** \_\_\_\_\_

**Borehole Observations After Drilling**

|                                       |
|---------------------------------------|
| <b>Immediately after:</b> 5.00'       |
| <b>4/23/20 - Gauging Event:</b> 3.99' |
| <b>Backfill:</b> Well materials       |

**Drilling Co.:** Alluvial Earth  
**Drill Rig Type:** Geoprobe 66DT

(Rec.) = RECOVERY (EOB) = END OF BORING  
(bgs) = Below Ground Surface  
(NR) = NO RECOVERY  
(NA) = NOT APPLICABLE

**Driller:** Ryan  
**Assistant:** N/A



46555 Humboldt Drive  
Suite 100  
Novi, MI 48377  
Phone: (248) 669-5140

**Project Number:** NPDAX19001  
**Project Name:** Detroit Axle  
**Site Location:** 1600 W. 8 Mile Rd.  
**City:** Ferndale, MI 48220  
**Boring Diameter:** 4" HA / 2.25" Macrocore  
**Drilling Method:** Hand Auger / Macrocore

# Monitoring Well Boring Log

**Boring ID:** MW-121 **Page:** 1 of 1  
**Start Date:** 04/21/20 **End Date:** 04/21/20  
**Casing:** Schedule 40 PVC  
**Casing Diameter:** 2" **Length:** 8'  
**Screen Slot Size:** 0.010"  
**Screen Diameter:** 2" **Length:** 5'

| FEET (bgs) | SAMPLE TYPE | SAMPLE INTERVAL (bgs) | SAMPLE TIME | Recovery | USCS | Graphic | LITHOLOGY DESCRIPTION  | PID (PPMV) | Well Construction    |
|------------|-------------|-----------------------|-------------|----------|------|---------|--|------------|----------------------|
| 0          |             |                       |             | 12"      |      |         | Topsoil  | 0.0        | Concrete Sand        |
| 1          |             |                       |             | 12"      |      |         |  | 0.0        | Sand                 |
| 2          | Soil        | 2'- 3'                | 1100        | 12"      | SW   |         | FILL SAND, dark brown, damp, medium grained, abundant roots, | 0.0        |                      |
| 3          |             |                       |             | 12"      |      |         |  | 0.0        | Bentonite            |
| 4          |             |                       |             | 12"      | SW   |         | SAND, red-brown, damp, medium grained,                       | 0.0        |                      |
| 5          |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 6          |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 7          |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 8          |             |                       |             | 12"      | SW   |         | SAND, tan/brown, saturated, medium to fine grained,          | 0.0        |                      |
| 9          | Soil        | 9'- 10'               | 1105        | 12"      |      |         |  | 0.0        |                      |
| 10         |             |                       |             | 12"      |      |         |  | 0.0        |                      |
| 11         |             |                       |             | 12"      |      |         |  | 0.0        | Screen               |
| 12         |             |                       |             | 12"      |      |         |  | 0.0        | Sand                 |
| 13         |             |                       |             | 12"      | SW   |         | SAND, tan/brown, saturated, medium to fine grained,          | 0.0        |                      |
| 14         |             |                       |             | 12"      |      |         |  | 0.0        | Native Collapse/Sand |
| 15         |             |                       |             | 12"      |      |         |  | 0.0        |                      |

EOB 15'

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE  
(AK) = AIR KNIFE (GS) = GeoSonic  
(SS) = SRLIT SPOON bpf = blows per foot  
(qP) = Penetrometer Unconfined Compressive Strength

**Logged by:** Spencer Overbeck  
**Drawn by:** Spencer Overbeck  
**Checked by:** Josh Schuyler

**Borehole Observations After Drilling**

**Immediately after:** 10.00'  
**4/23/20 - Gauging Event:** 9.67'  
**Backfill:** Well materials

**Drilling Co.:** Alluvial Earth  
**Drill Rig Type:** Geoprobe 66DT

(Rec.) = RECOVERY (EOB) = END OF BORING  
(bgs) = Below Ground Surface  
(NR) = NO RECOVERY  
(NA) = NOT APPLICABLE

**Driller:** Ryan  
**Assistant:** N/A

Project 6 ACRE PARCEL

Location 1600 W. 8 MILE ROAD, FERNDALE, MI

**LOG MW-122**

SHEET 1 OF 1

Client DETROIT AXLE

Drill Method HSA

Elevation (ft amsl) --

Prj. No. NPDX19001

Drilling Started 6/15/20 Ended 6/15/20

Total Depth (ft) 15

Logged By I. ADOLPHUES

Drill Contractor JSS

Depth To Water (ft)  $\nabla$  ATD 6.5

| DEPTH<br>(feet) | SAMPLE<br>NO. | BLOWS/6" | PID<br>(ppm) | USCS     | LITHOLOGY | DESCRIPTION   | COMPLETION<br>DETAILS | DEPTH<br>FEET |
|-----------------|---------------|----------|--------------|----------|-----------|---|-----------------------|---------------|
| 0.0             |               |          | 0.0          |          |           | SAND - FINE GRAINED WITH SOME BROKEN CONCRETE PIECES, DRY, BROWN                        | CAP                   | 0.0           |
| 2.0             |               |          | 0.0          |          |           | SAND - MEDIUM TO FINE GRAINED WITH TRACE GRAVEL AND ORGANICS, DAMP, DARK BROWN TO BROWN | BENTONITE             | 2.0           |
| 4.0             | (4-5')        |          | 0.0          | SP       |           |   |                       | 4.0           |
| 6.0             |               |          | 0.0          |          |           |   |                       | 6.0           |
| 8.0             |               |          | 0.0          | SP       |           | SAND - MEDIUM TO FINE GRAINED, SATURATED AT 6.5', BROWN                                 | SAND                  | 8.0           |
| 10.0            |               |          | 0.0          | SP       |           | SAND - MEDIUM TO FINE GRAINED, SATURATED, GRAYISH-BROWN                                 | 0.010"                | 10.0          |
| 12.0            |               |          | 0.0          | SC<br>GC |           | SAND - COARSE GRAINED, SATURATED, GRAYISH-BROWN   |                       | 12.0          |
| 14.0            |               |          | 0.0          | SP       |           | SAND - MEDIUM TO FINE GRAINED, SATURATED, GRAYISH-BROWN                                 |                       | 14.0          |
| 16.0            |               |          | 0.0          |          |           | Bottom of hole at 15 feet   |                       | 16.0          |

LOG A E1WNN05 NOV1 NPDX19001.GPJ LOG A E1WNN05.GDT 7/27/20



46555 Humboldt Dr. Ste. 100  
Novi, Michigan 48377  
Phone: 248-669-5140  
Fax: 248-669-5147

Remarks: Screen set (5-10')

See key sheet for symbols and abbreviations used above.

Project 6 ACRE PARCEL

Location 1600 W. 8 MILE ROAD, FERNDALE, MI

**LOG MW-123**

SHEET 1 OF 1

Client DETROIT AXLE

Drill Method HSA

Elevation (ft amsl) --

Prj. No. NPDX19001

Drilling Started 6/15/20 Ended 6/15/20

Total Depth (ft) 15

Logged By I. ADOLPHUES

Drill Contractor JSS

Depth To Water (ft)  $\nabla$  ATD 7

| DEPTH<br>(feet) | SAMPLE<br>NO. | BLOWS/6" | PID<br>(ppm) | USCS     | LITHOLOGY | DESCRIPTION  | COMPLETION<br>DETAILS | DEPTH<br>FEET |
|-----------------|---------------|----------|--------------|----------|-----------|--|-----------------------|---------------|
| 0.5             |               |          |              |          |           | SAND - FINE GRAINED, SOME GRAVEL AND TRACE ROOTS, CONCRETE AT 1', DRY, BROWN | CAP                   | 0.5           |
| 2               |               |          |              | SP       |           | SAND - MEDIUM TO FINE GRAINED, DAMP, GRAY                                    | BENTONITE             | 2             |
| 4               | (4-5')        |          | 0.2          | SP       |           | SAND - MEDIUM TO FINE GRAINED, DAMP, REDDISH BROWN                           |                       | 4             |
| 6               |               |          |              | SP       |           | SAND - COARSE TO MEDIUM GRAINED, SATURATED AT 7', BROWN                      | SAND                  | 6             |
| 8               |               |          | 0.1          | SP       |           | SAND - COARSE TO MEDIUM GRAINED, SATURATED, GRAY                             | 0.010"                | 8             |
| 10              |               |          |              | SP       |           | SAND - FINE TO COARSE GRAINED, SATURATED, GRAYISH-BROWN                      |                       | 10            |
| 12              |               |          | 0.0          | SP       |           |  |                       | 12            |
| 14              |               |          |              | SC<br>GC |           | SAND - COARSE GRAINED, SATURATED GRAYISH-BROWN                               |                       | 14            |
| 16              |               |          |              |          |           | Bottom of hole at 15 feet  |                       | 16            |

LOG A EIVN05 NOV1 NPDX19001.GPJ LOG A EIVN05.GDT 7/27/20



46555 Humboldt Dr. Ste. 100  
 Novi, Michigan 48377  
 Phone: 248-669-5140  
 Fax: 248-669-5147

Remarks: Screen set (5-10')

See key sheet for symbols and abbreviations used above.

Project 6 ACRE PARCEL

Location 1600 W. 8 MILE ROAD, FERNDALE, MI

**LOG MW-124**

SHEET 1 OF 1

Client DETROIT AXLE

Drill Method HSA

Elevation (ft amsl) --

Prj. No. NPDX19001

Drilling Started 6/15/20 Ended 6/15/20

Total Depth (ft) 15

Logged By I. ADOLPHUES

Drill Contractor JSS

Depth To Water (ft)  $\nabla$  ATD 10

| DEPTH<br>(feet) | SAMPLE<br>NO. | BLOWS/6" | PID<br>(ppm) | USCS | LITHOLOGY | DESCRIPTION   | COMPLETION<br>DETAILS | DEPTH<br>FEET |
|-----------------|---------------|----------|--------------|------|-----------|---|-----------------------|---------------|
|                 |               |          | 0.0          |      |           | SAND - FINE GRAINED WITH TRACE GRAVEL, DRY, BROWN   | CAP                   |               |
| 2               |               |          | 0.1          |      |           | SAND - MEDIUM TO FINE GRAINED WITH TRACE GRAVEL AND ORGANICS AT 2', DAMP, DARK TO LIGHT BROWN | BENTONITE             | 2             |
| 4               | (4-5')        |          | 0.1          | SP   |           |   |                       | 4             |
| 6               |               |          | 0.1          |      |           |   |                       | 6             |
| 8               |               |          | 0.0          | SP   |           | SAND - COARSE TO MEDIUM GRAINED, WET AT 7', LIGHT BROWN                                       |                       | 8             |
|                 |               |          | 0.0          | SP   |           | SAND - MEDIUM TO FINE GRAINED, MOIST, LIGHT GRAY TO BROWN                                     | SAND                  |               |
| 10              |               |          |              |      |           | SAND - MEDIUM TO FINE GRAINED, SATURATED AT 10', LIGHT GRAYISH BROWN                          | 0.010"                | 10            |
| 12              |               |          | 0.0          | SP   |           |   |                       | 12            |
| 14              |               |          | 0.0          |      |           |   |                       | 14            |
| 16              |               |          | 0.0          |      |           | Bottom of hole at 15 feet   |                       | 16            |

LOG A EIVNN05 NOV1 NPDX19001.GPJ LOG A EIVNN05.GDT 7/27/20



46555 Humboldt Dr. Ste. 100  
 Novi, Michigan 48377  
 Phone: 248-669-5140  
 Fax: 248-669-5147

Remarks: Screen set (7-12')

See key sheet for symbols and abbreviations used above.

Project 6 ACRE PARCEL

Location 1600 W. 8 MILE ROAD, FERNDALE, MI

**LOG MW-125**

SHEET 1 OF 1

Client DETROIT AXLE

Drill Method HSA

Elevation (ft amsl) --

Prj. No. NPDX19001

Drilling Started 6/16/20 Ended 6/16/20

Total Depth (ft) 15

Logged By I. ADOLPHUES

Drill Contractor JSS

Depth To Water (ft)  $\nabla$  ATD 10

| DEPTH<br>(feet) | SAMPLE<br>NO. | BLOWS/6" | PID<br>(ppm) | USCS | LITHOLOGY | DESCRIPTION  | COMPLETION<br>DETAILS | DEPTH<br>FEET |
|-----------------|---------------|----------|--------------|------|-----------|--|-----------------------|---------------|
|                 |               |          | 0.0          |      |           | SAND - FINE GRAINED WITH TRACE GRAVEL, DRY, BROWN  | CAP                   |               |
| 2               |               |          |              |      |           | SAND - MEDIUM TO FINE GRAINED WITH TRACE GRAVEL AND BROKEN CONCRETE AND BRICK PIECES, DAMP, DARK BROWN | BENTONITE             | 2             |
| 4               | (4-5')        |          | 0.3          | SP   |           |  |                       | 4             |
| 6               |               |          |              |      |           | SAND - MEDIUM GRAINED, LARGE CONCRETE PIECES, WET AT 8', DARK BROWN TO BROWN                           |                       | 6             |
| 8               |               |          |              | SP   |           |  |                       | 8             |
| 10              |               |          | 0.1          | SP   |           | SAND - COARSE TO MEDIUM GRAINED, SATURATED AT 10', GRAYISH BROWN                                       |                       | 10            |
| 12              |               |          |              | SW   |           | SAND - COARSE GRAINED, SATURATED, GRAYISH BROWN  | SAND<br>0.010"        | 10            |
| 12              |               |          | 0.0          | SP   |           | SAND - MEDIUM TO FINE GRAINED, SATURATED, DARK GRAY  |                       | 12            |
| 14              |               |          | 0.0          | SP   |           | SAND - MEDIUM TO FINE GRAINED WITH SOME SILT, SATURATED, GRAYISH BROWN                                 |                       | 14            |
| 16              |               |          | 0.0          |      |           | Bottom of hole at 15 feet  |                       | 16            |

LOG A EIVNN05 NOV1 NPDX19001.GPJ LOG A EIVNN05.GDT 7/27/20



46555 Humboldt Dr. Ste. 100  
 Novi, Michigan 48377  
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 Fax: 248-669-5147

Remarks: Screen set (8-13')

See key sheet for symbols and abbreviations used above.

Project 6 ACRE PARCEL

Location 1600 W. 8 MILE ROAD, FERNDALE, MI

**LOG MW-126**

SHEET 1 OF 1

Client DETROIT AXLE

Drill Method HSA

Elevation (ft amsl) --

Prj. No. NPDAX19001

Drilling Started 6/15/20 Ended 6/15/20

Total Depth (ft) 15

Logged By I. ADOLPHUES

Drill Contractor JSS

Depth To Water (ft)  $\nabla$  ATD 10

| DEPTH<br>(feet) | SAMPLE<br>NO. | BLOWS/6" | PID<br>(ppm) | USCS | LITHOLOGY | DESCRIPTION   | COMPLETION<br>DETAILS | DEPTH<br>FEET |
|-----------------|---------------|----------|--------------|------|-----------|---|-----------------------|---------------|
|                 |               |          | 0.0          |      |           | SAND - FINE GRAINED WITH TRACE GRAVEL, DRY, BROWN   | CAP                   |               |
| 2               |               |          | 0.2          | SP   |           | SAND - MEDIUM GRAINED WITH TRACE GRAVEL AND ORGANICS, DAMP, DARK BROWN TO BROWN                         | BENTONITE             | 2             |
| 4               | (4-5')        |          | 0.5          | SP   |           | SAND - MEDIUM GRAINED WITH TRACE GRAVEL AND ORGANICS, DAMP, DARK BROWN                                  |                       | 4             |
| 6               |               |          | 0.5          | SP   |           | SAND - MEDIUM TO FINE GRAINED, DAMP, DARK BROWN WITH SOME RED   |                       | 6             |
| 8               |               |          | 0.7          | SP   |           | SAND - MEDIUM GRAINED WITH TRACE GRAVEL, DAMP, LIGHT BROWN  |                       | 8             |
| 10              | (7.5-8.5')    |          | 0.7          | SP   |           | SAND - MEDIUM GRAINED WITH TRACE GRAVEL, MOIST, TAN   |                       | 10            |
| 12              |               |          | 1.0          | SP   |           | SAND - MEDIUM TO FINE GRAINED, SATURATED AT 10', BROWN TO DARK GRAY WITH SOME BLACK, SLIGHT SULFUR ODOR | SAND<br>0.010"        | 10            |
| 14              |               |          | 0.1          | SM   |           | SAND - FINE GRAINED WITH SILT, SATURATED, GRAYISH BROWN   |                       | 14            |
| 16              |               |          | 0.1          |      |           | Bottom of hole at 15 feet   |                       | 16            |

LOG A EIVNN05 NOV1 NPDAX19001.GPJ LOG A EIVNN05.GDT 7/27/20



46555 Humboldt Dr. Ste. 100  
 Novi, Michigan 48377  
 Phone: 248-669-5140  
 Fax: 248-669-5147

Remarks: Screen set (8.5-13.5')

See key sheet for symbols and abbreviations used above.



Project 6 ACRE PARCEL

Location 1600 W. 8 MILE ROAD, FERNDALE, MI

LOG MW-127

SHEET 1 OF 1

Client DETROIT AXLE

Drill Method HSA

Elevation (ft amsl) --

Prj. No. NPDAX19001

Drilling Started 6/15/20 Ended 6/15/20

Total Depth (ft) 15

Logged By I. ADOLPHUES

Drill Contractor JSS

Depth To Water (ft)  $\nabla$  ATD 10

| DEPTH<br>(feet) | SAMPLE<br>NO. | BLOWS/6" | PID<br>(ppm) | USCS     | LITHOLOGY | DESCRIPTION   | COMPLETION<br>DETAILS | DEPTH<br>FEET |
|-----------------|---------------|----------|--------------|----------|-----------|---|-----------------------|---------------|
|                 |               |          | 0.2          |          |           | SAND - MEDIUM TO FINE WITH CONCRETE AND BRICK PIECES, DRY, LIGHT BROWN              | CAP                   |               |
| 2               |               |          | 1.1          | SP       |           | SAND - MEDIUM TO FINE GRAINED WITH SOME CONCRETE AND BRICK PIECES, DRY, LIGHT BROWN | BENTONITE             | 2             |
| 4               |               |          | 1.0          | SP       |           | SAND - MEDIUM TO FINE GRAINED WITH SOME SILT, DAMP, GRAY                            |                       | 4             |
| 6               |               |          | 1.0          | SP       |           | SAND - MEDIUM TO FINE GRAINED, DAMP, REDDISH BROWN                                  |                       | 6             |
| 8               | (6-7')        |          | 1.0          | SP       |           | SAND - MEDIUM GRAINED, MOIST AT 8', LIGHT GRAY                                      |                       | 8             |
| 10              |               |          |              | SW       |           | SAND - COARSE GRAINED, MOIST, LIGHT GRAY  | SAND<br>0.010"        | 10            |
|                 |               |          |              | SP       |           | SAND - MEDIUM GRAINED, LIGHT GRAY   |                       | 10            |
|                 | (10-11')      |          | 49.6         | SP       |           | SAND - MEDIUM GRAINED, SATURATED AT 10', BLACK, PETROLEUM ODOR                      |                       | 10            |
| 12              |               |          |              | SP<br>SM |           | SAND - MEDIUM TO FINE GRAINED WITH SOME SILT, SATURATED, LIGHT GRAY                 |                       | 12            |
| 14              |               |          |              |          |           |   |                       | 14            |
| 16              |               |          | 0.2          |          |           | Bottom of hole at 15 feet   |                       | 16            |

LOG A EIVNN05 NOV1 NPDAX19001.GPJ LOG A EIVNN05.GDT 7/27/20



46555 Humboldt Dr. Ste. 100  
Novi, Michigan 48377  
Phone: 248-669-5140  
Fax: 248-669-5147

Remarks: Screen set (8-13')

See key sheet for symbols and abbreviations used above.

Project 6 ACRE PARCEL

Location 1600 W. 8 MILE ROAD, FERNDALE, MI

**LOG MW-128**

SHEET 1 OF 1

Client DETROIT AXLE

Drill Method HSA

Elevation (ft amsl) --

Prj. No. NPDX19001

Drilling Started 6/15/20 Ended 6/15/20

Total Depth (ft) 15

Logged By I. ADOLPHUES

Drill Contractor JSS

Depth To Water (ft)  $\nabla$  ATD 10

| DEPTH<br>(feet) | SAMPLE<br>NO. | BLOWS/6" | PID<br>(ppm) | USCS | LITHOLOGY | DESCRIPTION   | COMPLETION<br>DETAILS | DEPTH<br>FEET |
|-----------------|---------------|----------|--------------|------|-----------|---|-----------------------|---------------|
| 0.0             |               |          |              |      |           | GRASS AND TOPSOIL   | CAP                   | 0.0           |
| 2.0             |               |          |              | SP   |           | SAND - FINE GRAINED WITH SOME SILT AND TRACE GRAVEL, DRY, LIGHT BROWN   |                       | 2.0           |
| 4.5             | (4-5')        |          |              | SP   |           | SAND - FINE GRAINED WITH SOME MEDIUM TO COARSE GRAINED, BROKEN CONCRETE AND BRICK (4-4.5'), DAMP, BROWN WITH SOME RED | BENTONITE             | 4.5           |
| 6.0             |               |          |              | SP   |           | SAND - MEDIUM GRAINED WITH SOME COARSE GRAINED, MOIST, WET AT 9.5', BROWN WITH SOME RED                               |                       | 6.0           |
| 8.0             | (8-9')        |          |              | SP   |           | SAND - MEDIUM TO FINE GRAINED, WET, SATURATED AT 10', BROWN/GRAY  |                       | 8.0           |
| 10.0            |               |          |              | SW   |           | SAND - COARSE GRAINED, SATURATED, BROWN/GRAY  | SAND                  | 10.0          |
| 10.0            |               |          |              | SM   |           | SAND - FINE GRAINED WITH SILT, SATURATED, GRAY  | 0.010"                | 10.0          |
| 15.0            |               |          |              |      |           | Bottom of hole at 15 feet   |                       | 15.0          |

LOG A E1WNN05 NOV1 NPDX19001.GPJ LOG A E1WNN05.GDT 7/27/20



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Remarks: Screen set (8-13')

See key sheet for symbols and abbreviations used above.

Project 6 ACRE PARCEL

Location 1600 W. 8 MILE ROAD, FERNDALE, MI

**LOG MW-129**

SHEET 1 OF 1

Client DETROIT AXLE

Drill Method HSA

Elevation (ft amsl) --

Prj. No. NPDA19001

Drilling Started 6/15/20 Ended 6/15/20

Total Depth (ft) 15

Logged By I. ADOLPHUES

Drill Contractor JSS

Depth To Water (ft)  $\nabla$  ATD 10

| DEPTH<br>(feet) | SAMPLE<br>NO. | BLOWS/6" | PID<br>(ppm) | USCS | LITHOLOGY | DESCRIPTION   | COMPLETION<br>DETAILS | DEPTH<br>FEET |
|-----------------|---------------|----------|--------------|------|-----------|---|-----------------------|---------------|
|                 |               |          | 0.2          |      |           | SAND - FINE GRAINED WITH TRACE GRAVEL, DRY, BROWN   | CAP                   |               |
| 2               |               |          | 0.4          | SP   |           | SAND - MEDIUM TO FINE GRAINED WITH SOME BROKEN CONCRETE AND BRICK PIECES, DAMP, BROWN               | BENTONITE             | 2             |
| 4               | (3-4')        |          | 0.4          | SP   |           | SAND - MEDIUM TO FINE GRAINED WITH TRACE GRAVEL, SOME BROKEN CONCRETE AND BRICK PIECES, DAMP, BROWN |                       | 4             |
| 6               |               |          | 0.4          | SP   |           | SAND - MEDIUM TO FINE GRAINED WITH TRACE GRAVEL, SOME BROKEN CONCRETE AND BRICK PIECES, DAMP, BROWN |                       | 6             |
| 8               |               |          | 0.7          | SP   |           | SAND - MEDIUM GRAINED WITH SOME CONCRETE AND BRICK PIECES, WET AT 8', DARK BROWN                    | SAND<br>0.010"        | 8             |
| 10              |               |          | 0.2          | SP   |           | SAND - COARSE TO MEDIUM GRAINED WITH SOME GRAVEL, SATURATED AT 10', DARK GRAY                       |                       | 10            |
| 12              |               |          | 0.1          | SM   |           | SAND - FINE GRAINED WITH SOME SILT AND TRACE ROOTS, SATURATED, GRAY                                 |                       | 12            |
| 14              |               |          | 0.0          |      |           | Bottom of hole at 15 feet   |                       | 14            |
| 16              |               |          |              |      |           |   |                       | 16            |

LOG A E1WNN05 NOV1 NPDA19001.GPJ LOG A E1WNN05.GDT 7/27/20



46555 Humboldt Dr. Ste. 100  
Novi, Michigan 48377  
Phone: 248-669-5140  
Fax: 248-669-5147

Remarks: Screen set (8-13')

See key sheet for symbols and abbreviations used above.

Project 6 ACRE PARCEL

Location 1600 W. 8 MILE ROAD, FERNDALE, MI

**LOG MW-130**

SHEET 1 OF 1

Client DETROIT AXLE

Drill Method HSA

Elevation (ft amsl) --

Prj. No. NPDA19001

Drilling Started 6/15/20 Ended 6/15/20

Total Depth (ft) 15

Logged By I. ADOLPHUES

Drill Contractor JSS

Depth To Water (ft) ▽ ATD 7

| DEPTH<br>(feet) | SAMPLE<br>NO. | BLOWS/6" | PID<br>(ppm) | USCS | LITHOLOGY | DESCRIPTION  | COMPLETION<br>DETAILS | DEPTH<br>FEET |
|-----------------|---------------|----------|--------------|------|-----------|--|-----------------------|---------------|
| 0.0             |               |          | 0.0          |      |           | SAND - FINE GRAINED WITH BROKEN CONCRETE AND BRICK PIECES, DRY, LIGHT BROWN                        | CAP                   | 0.0           |
| 2.0             |               |          | 0.2          | SP   |           | SAND - FINE TO MEDIUM GRAINED WITH TRACE GRAVEL, SOME BROKEN ASPHALT AND BRICK PIECES, DAMP, BLACK | BENTONITE             | 2.0           |
| 4.0             |               |          | 0.2          | SP   |           | SAND - MEDIUM TO FINE GRAINED, DAMP, TAN TO REDDISH BROWN  |                       | 4.0           |
| 6.0             | (4-5')        |          | 0.3          | SP   |           |  |                       | 6.0           |
| 8.0             |               |          | 0.3          | SW   |           | SAND - MEDIUM GRAINED, SATURATED AT 7', LIGHT BROWN  | SAND                  | 8.0           |
| 10.0            |               |          | 0.0          | SM   |           | SAND - COARSE TO FINE GRAINED WITH SOME SILT, SATURATED, GRAYISH BROWN                             | 0.010"                | 10.0          |
| 12.0            |               |          | 0.0          |      |           |  |                       | 12.0          |
| 14.0            |               |          | 0.0          |      |           |  |                       | 14.0          |
| 16.0            |               |          | 0.0          |      |           | Bottom of hole at 15 feet  |                       | 16.0          |

LOG A E1WNN05 NOV1 NPDA19001.GPJ LOG A E1WNN05.GDT 7/27/20



46555 Humboldt Dr. Ste. 100  
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Remarks: Screen set (5-10')

See key sheet for symbols and abbreviations used above.

Project 6 ACRE PARCEL

Location 1600 W. 8 MILE ROAD, FERNDALE, MI

**LOG MW-131**

SHEET 1 OF 1

Client DETROIT AXLE

Drill Method HSA

Elevation (ft amsl) --

Prj. No. NPDX19001

Drilling Started 6/15/20 Ended 6/15/20

Total Depth (ft) 15

Logged By I. ADOLPHUES

Drill Contractor JSS

Depth To Water (ft) ▽ ATD 5.5

| DEPTH<br>(feet) | SAMPLE<br>NO. | BLOWS/6" | PID<br>(ppm) | USCS | LITHOLOGY | DESCRIPTION  | COMPLETION<br>DETAILS | DEPTH<br>FEET |
|-----------------|---------------|----------|--------------|------|-----------|--|-----------------------|---------------|
|                 |               |          | 0.0          |      |           | SAND - FINE GRAINED WITH SOME BROKEN CONCRETE PIECES, DRY, LIGHT BROWN     | CAP                   |               |
| 2               | (2-3')        |          | 0.2          | SP   |           | SAND - MEDIUM GRAINED WITH SOME CONCRETE PIECES AT 3', DAMP, REDDISH BROWN | BENTONITE             | 2             |
| 4               |               |          | 0.2          | SP   |           | SAND - MEDIUM GRAINED, DAMP, TAN   |                       | 4             |
| 6               |               |          | 0.2          | SP   |           | SAND - MEDIUM GRAINED, SATURATED AT 5.5', BROWN                            | SAND<br>0.010"        | 6             |
| 8               |               |          | 0.9          | SP   |           | SAND - MEDIUM GRAINED WITH SOME ORGANICS, SATURATED, BLACK                 |                       | 8             |
| 10              |               |          | 0.0          | SW   |           | SAND - MEDIUM GRAINED, SATURATED, LIGHT BROWN                              | ▽                     | 10            |
| 12              |               |          | 0.0          | SW   |           | SAND - MEDIUM GRAINED, SATURATED, LIGHT GRAY                               |                       | 12            |
| 14              |               |          | 0.0          | SP   |           | SAND - MEDIUM TO FINE GRAINED WITH TRACE GRAVEL, SATURATED, BROWN          |                       | 14            |
| 16              |               |          | 0.0          |      |           | Bottom of hole at 15 feet  |                       | 16            |

LOG A EIVNN05 NOV1 NPDX19001.GPJ LOG A EIVNN05.GDT 7/27/20



46555 Humboldt Dr. Ste. 100  
 Novi, Michigan 48377  
 Phone: 248-669-5140  
 Fax: 248-669-5147

Remarks: Screen set (5-10')

See key sheet for symbols and abbreviations used above.

Project 6 ACRE PARCEL

Location 1600 W. 8 MILE ROAD, FERNDALE, MI

LOG MW-132

SHEET 1 OF 1

Client DETROIT AXLE

Drill Method HSA

Elevation (ft amsl) --

Prj. No. NPDAX19001

Drilling Started 8/12/20 Ended 8/12/20

Total Depth (ft) 16

Logged By R.SCOTT

Drill Contractor TERRAPROBE

Depth To Water (ft)  $\nabla$  ATD 12

| DEPTH<br>(feet) | SAMPLE<br>NO. | BLOWS/6" | PID<br>(ppm) | USCS | LITHOLOGY | DESCRIPTION   | COMPLETION<br>DETAILS | DEPTH<br>FEET |
|-----------------|---------------|----------|--------------|------|-----------|---|-----------------------|---------------|
| 0.0             |               |          |              |      |           | SAND - FINE GRAINED WITH SOME BROKEN CONCRETE PIECES, DRY, BROWN  | CAP                   | 0.0           |
| 2               |               |          |              | SP   |           | SAND - FINE TO MEDIUM GRAINED WITH TRACE GRAVEL, MOIST, DARK BROWN  | BENTONITE             | 2             |
| 0.0             |               |          |              |      |           | CONCRETE - BROKEN   |                       | 0.0           |
| 4               |               |          |              | SP   |           | SAND - FINE TO MEDIUM GRAINED WITH TRACE GRAVEL AND TRACE CLAY, LITTLE CONCRETE FRAGMENTS, DENSE, MOIST                             | BENTONITE             | 4             |
| 0.2             |               |          |              |      |           | CONCRETE AND BRICK FRAGMENTS  |                       | 0.2           |
| 6               | (5.5-6.5')    |          |              | CL   |           | CLAY - SANDY MEDIUM TO FINE GRAINED WITH BRICK AND CONCRETE FRAGMENTS, MOIST, DARK BROWN TO BLACK, STRONG SULFURIC ODOR             | BENTONITE             | 6             |
| 0.3             |               |          |              | SW   |           | SAND - COARSE GRAINED, MOIST, LIGHT BROWN WITH BRICK FRAGMENTS  |                       | 0.3           |
| 8               |               |          |              |      |           | CONCRETE AND BRICK FRAGMENTS  | BENTONITE             | 8             |
| 0.1             |               |          |              |      |           | SAND - FINE GRAINED, DRY, LIGHT BROWN   |                       | 0.1           |
| 10              |               |          |              | CL   |           | CLAY - SANDY FINE TO MEDIUM GRAINED WITH SOME LARGE ROCKS AND SMALL GRAVEL, SOME BRICK AND CONCRETE FRAGMENTS, DAMP/WET, DARK BROWN | BENTONITE             | 10            |
| 0.1             |               |          |              |      |           | CONCRETE - BROKEN   |                       | 0.1           |
| 12              |               |          |              | SP   |           | SAND - MEDIUM TO COARSE GRAINED WITH SOME BRICK AND CONCRETE FRAGMENTS, DAMP, LIGHT BROWN   | SAND                  | 12            |
| 0.0             |               |          |              |      |           | CONCRETE AND BRICK FRAGMENTS  |                       | 0.0           |
| 14              |               |          |              | SP   |           | SAND - MEDIUM TO COARSE GRAINED WITH SOME LARGE ROCKS, SMALL GRAVEL, GLASS AND BRICK PIECES, SATURATED, BROWN                       | SAND                  | 14            |
| 0.1             |               |          |              |      |           | CONCRETE AND BRICK FRAGMENTS  |                       | 0.1           |
| 16              |               |          |              | SP   |           | SAND - FINE TO MEDIUM GRAINED WITH SOME SILT, WET, BROWN  | SAND                  | 16            |
| 0.0             |               |          |              |      |           | CONCRETE AND BRICK FRAGMENTS  |                       | 0.0           |
|                 |               |          |              |      |           | Bottom of hole at 16 feet   |                       |               |

LOG A EWN05 NOV1 NPDAX19001 - MW132\_133.GPJ LOG A EWN05.GDT 8/20/20



46555 Humboldt Dr. Ste. 100  
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Fax: 248-669-5147

Remarks: Screen set (10-15')

See key sheet for symbols and abbreviations used above.

Project 6 ACRE PARCEL

Location 1600 W. 8 MILE ROAD, FERNDALE, MI

**LOG MW-133**

SHEET 1 OF 1

Client DETROIT AXLE

Drill Method HSA

Elevation (ft amsl) --

Prj. No. NPDA19001

Drilling Started 8/12/20 Ended 8/12/20

Total Depth (ft) 16

Logged By R. SCOTT

Drill Contractor TERRAPROBE

Depth To Water (ft) ▽ ATD 12

| DEPTH<br>(feet) | SAMPLE<br>NO. | BLOWS/6" | PID<br>(ppm) | USCS | LITHOLOGY | DESCRIPTION   | COMPLETION<br>DETAILS | DEPTH<br>FEET |
|-----------------|---------------|----------|--------------|------|-----------|---|-----------------------|---------------|
|                 |               |          | 0.0          |      |           | SAND - FINE GRAINED WITH SOME SILT AND ORGANICS, DRY, LIGHT BROWN   | CAP                   |               |
|                 |               |          |              |      |           | CONCRETE AND BRICK FRAGMENTS  |                       |               |
| 2               |               |          |              | SP   |           | SAND - FINE TO MEDIUM GRAINED, DRY, LIGHT BROWN   |                       | 2             |
|                 | (3-4')        |          | 0.0          |      |           | SAND - FINE TO MEDIUM GRAINED WITH SOME LARGE ROCKS AND CONCRETE/BRICK FRAGMENTS, MOIST, BROWN                                      |                       |               |
| 4               |               |          |              | CL   |           | CLAY - SANDY FINE TO MEDIUM GRAINED WITH SOME GRAVEL, BRICKS/CONCRETE FRAGMENTS AND GLASS, MOIST, DARK BROWN                        | BENTONITE             | 4             |
|                 |               |          | 0.1          |      |           | CONCRETE AND BRICK FRAGMENTS  |                       | 6             |
| 6               |               |          |              | CL   |           | CLAY - SANDY FINE TO MEDIUM GRAINED WITH SOME GRAVEL, BRICKS/CONCRETE FRAGMENTS AND GLASS, DAMP, DARK BROWN                         |                       | 8             |
| 8               |               |          |              | CL   |           | CLAY - SANDY FINE TO MEDIUM GRAINED WITH SOME GRAVEL, BRICKS/CONCRETE FRAGMENTS AND GLASS, WET, DARK BROWN                          |                       | 10            |
| 10              |               |          |              | CL   |           | CLAY - SANDY FINE TO MEDIUM GRAINED WITH SOME GRAVEL, BRICKS/CONCRETE FRAGMENTS AND GLASS, WET, DARK BROWN (GRAY/BLACK FROM 10-12') |                       | 12            |
|                 | (10-11')      |          | 0.2          |      |           | SAND - FINE TO MEDIUM GRAINED WITH SOME SILT, SATURATED AT 12', GRAY  | SAND                  | 12            |
| 12              |               |          |              | SP   |           | SAND - FINE TO MEDIUM GRAINED WITH SOME SILT, WET, GRAY WITH SOME BLACK STAINING FROM 15-15.5'                                      | 0.010"                | 14            |
| 14              |               |          | 0.0          |      |           |   |                       | 16            |
| 16              |               |          | 0.0          |      |           |   |                       | 16            |
|                 |               |          |              |      |           | Bottom of hole at 16 feet   |                       |               |

LOG A EWN05 NOV1 NPDA19001 - MW133\_133.GPJ LOG A EWN05.GDT 8/20/20



46555 Humboldt Dr. Ste. 100  
 Novi, Michigan 48377  
 Phone: 248-669-5140  
 Fax: 248-669-5147

Remarks: Screen set (10-15')

See key sheet for symbols and abbreviations used above.

Project No: 010105.01

### Log of Borehole: SB-1

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |   |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks             |
|--------------------|--------|---|-------|--------|------|----------|--|-----------|---------------------|
| Depth<br>ft m      | Symbol | Description                                       | Elev. | Number | Type | Recovery |  |           |                     |
| 0                  |        | Ground Surface                                    | 0     |        |      |          |  |           |                     |
| 0                  |        | 4" Asphalt and gravel base                        |       |        |      |          |  |           |                     |
| 1                  |        | Coarse grained, medium brown dry SAND             |       | 1      | SS   | NA       |  |           |                     |
| 2                  |        |   |       |        |      |          |  |           |                     |
| 4                  |        | Moist, medium-grained, brown SAND                 | -4    | 2      | SS   | NA       |  |           |                     |
| 6                  |        |   |       |        |      |          |  |           |                     |
| 8                  |        | Moist, brown, fine-grained SAND, saturated at 10' | -8    | 3      | SS   | NA       |  |           | Bentonite chip seal |
| 11                 |        |   |       |        |      |          |  |           |                     |
| 14                 |        | Moist, brown, fine-grained SAND, saturated at 10' |       | 4      | SS   | NA       |  |           |                     |
| 17                 |        |   |       |        |      |          |  |           |                     |
| 20                 |        | Silty gray dry CLAY, with trace of pebbles        | -23   |        | SS   |          |  |           |                     |
| 23                 |        |   |       | -24    |      |          |  |           |                     |
| 24                 |        | End of Borehole                                   |       |        |      |          |  |           |                     |

Drill Method: Geoprobe

Drill Date: 10/4/12

Hole Size: 2.25

RJN ENVIRONMENTAL, INC.  
34888 Garfield Rd,  
Fraser, MI 48026

Datum: NA

Checked by: RJN

Sheet: 1 of 1

Project No: 010105.01

### Log of Borehole: SB-2

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |   |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks             |
|--------------------|--------|---|-------|--------|------|----------|--|-----------|---------------------|
| Depth<br>ft m      | Symbol | Description                                       | Elev. | Number | Type | Recovery |  |           |                     |
| 0                  |        | Ground Surface                                    | 0     |        |      |          |  |           |                     |
| 0                  |        | 4" Asphalt and gravel base                        |       |        |      |          |  |           |                     |
| 1                  |        | Coarse grained, medium brown dry SAND             |       | 1      | SS   | NA       |  |           |                     |
| 2                  |        |   |       |        |      |          |  |           |                     |
| 4                  |        | Moist, medium-grained, brown SAND                 | -4    |        |      |          |  |           |                     |
| 6                  |        |   |       |        | 2    | SS       | NA   |           |                     |
| 8                  |        | Moist, brown, fine-grained SAND, saturated at 10' | -8    |        |      |          |  |           | Bentonite chip seal |
| 11                 |        |   |       |        | 3    | SS       | NA   |           |                     |
| 12                 |        | End of Borehole                                   | -12   |        |      |          |  |           |                     |

Drill Method: Geoprobe

Drill Date: 10/4/12

Hole Size: 2.25

RJN ENVIRONMENTAL, INC.  
34888 Garfield Rd,  
Fraser, MI 48026

Datum: NA

Checked by: RJN

Sheet: 1 of 1



Project No: 010105.01

### Log of Borehole: SB-3

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |   |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data           | Remarks |
|--------------------|--------|---|-------|--------|------|----------|--|---------------------|---------|
| Depth              | Symbol | Description                                       | Elev. | Number | Type | Recovery |  |                     |         |
| 0                  |        | Ground Surface                                    | 0     |        |      |          |  |                     |         |
| 0                  |        | 4" Asphalt and gravel base                        | -0.4  |        |      |          |  |                     |         |
| 0-4                |        | Coarse grained, medium brown dry SAND             |       | 1      | SS   | NA       |  |                     |         |
| 4-8                |        | Moist, medium-grained, brown SAND                 |       | 2      | SS   | NA       |  |                     |         |
| 8-12               |        | Moist, brown, fine-grained SAND, saturated at 10' |       | 3      | SS   | NA       |  | Bentonite chip seal |         |
| 12                 |        | End of Borehole                                   | -12   |        |      |          |  |                     |         |

Drill Method: Geoprobe

Drill Date: 10/4/12

Hole Size: 2.25

RJN ENVIRONMENTAL, INC.  
34888 Garfield Rd,  
Fraser, MI 48026

Datum: NA

Checked by: RJN

Sheet: 1 of 1

Project No: 010105.01

### Log of Borehole: SB-4

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |   |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data           | Remarks |
|--------------------|--------|---|-------|--------|------|----------|--|---------------------|---------|
| Depth              | Symbol | Description                                       | Elev. | Number | Type | Recovery |  |                     |         |
| 0                  |        | Ground Surface                                    | 0     |        |      |          |  |                     |         |
| 0                  |        | 4" Asphalt and gravel base                        | -0.4  |        |      |          |  |                     |         |
| 0-4                |        | Coarse grained, medium brown dry SAND             |       | 1      | SS   | NA       |  |                     |         |
| 4-8                |        | Moist, medium-grained, brown SAND                 |       | 2      | SS   | NA       |  |                     |         |
| 8-12               |        | Moist, brown, fine-grained SAND, saturated at 10' |       | 3      | SS   | NA       |  | Bentonite chip seal |         |
| 12                 |        | End of Borehole                                   | -12   |        |      |          |  |                     |         |

Drill Method: Geoprobe

Drill Date: 10/4/12

Hole Size: 2.25

RJN ENVIRONMENTAL, INC.  
34888 Garfield Rd,  
Fraser, MI 48026

Datum: NA

Checked by: RJN

Sheet: 1 of 1

Project No: 010105.01

### Log of Borehole: SB-5

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |   |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks             |
|--------------------|--------|---|-------|--------|------|----------|--|-----------|---------------------|
| Depth              | Symbol | Description                                       | Elev. | Number | Type | Recovery |  |           |                     |
| 0                  |        | Ground Surface                                    | 0     |        |      |          |  |           |                     |
| 0                  |        | 4" grass and topsoil cover                        | -0.4  |        |      |          |  |           |                     |
| 1                  |        | Coarse grained, medium brown dry SAND             |       |        |      |          |  |           |                     |
| 2                  |        |   |       | 1      | SS   | NA       |  |           |                     |
| 3                  |        |   |       |        |      |          |  |           |                     |
| 4                  |        | Moist, medium-grained, brown SAND                 | -4    |        |      |          |  |           |                     |
| 5                  |        |   |       |        |      |          |  |           |                     |
| 6                  |        |   |       | 2      | SS   | NA       |  |           |                     |
| 7                  |        |   |       |        |      |          |  |           |                     |
| 8                  |        | Moist, brown, fine-grained SAND, saturated at 10' | -8    |        |      |          |  |           | Bentonite chip seal |
| 9                  |        |   |       |        |      |          |  |           |                     |
| 10                 |        |   |       | 3      | SS   | NA       |  |           |                     |
| 11                 |        |   |       |        |      |          |  |           |                     |
| 12                 |        | End of Borehole                                   | -12   |        |      |          |  |           |                     |
| 13                 |        |   |       |        |      |          |  |           |                     |
| 14                 |        |   |       |        |      |          |  |           |                     |

Drill Method: Geoprobe

Drill Date: 10/4/12

Hole Size: 2.25

RJN ENVIRONMENTAL, INC.  
34888 Garfield Rd,  
Fraser, MI 48026

Datum: NA

Checked by: RJN

Sheet: 1 of 1

Project No: 010105.01

### Log of Borehole: SB-6

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |   |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks             |
|--------------------|--------|---|-------|--------|------|----------|--|-----------|---------------------|
| Depth              | Symbol | Description                                       | Elev. | Number | Type | Recovery |  |           |                     |
| 0                  |        | Ground Surface                                    | 0     |        |      |          |  |           |                     |
| 0                  |        | 4" grass and topsoil cover                        | -0.4  |        |      |          |  |           |                     |
| 1                  |        | Coarse grained, medium brown dry SAND             |       |        |      |          |  |           |                     |
| 2                  |        |   |       | 1      | SS   | NA       |  |           |                     |
| 3                  |        |   |       |        |      |          |  |           |                     |
| 4                  |        | Moist, medium-grained, brown SAND                 | -4    |        |      |          |  |           |                     |
| 5                  |        |   |       |        |      |          |  |           |                     |
| 6                  |        |   |       | 2      | SS   | NA       |  |           |                     |
| 7                  |        |   |       |        |      |          | 16   |           |                     |
| 8                  |        | Moist, brown, fine-grained SAND, saturated at 10' | -8    |        |      |          |  |           | Bentonite chip seal |
| 9                  |        |   |       |        |      |          |  |           |                     |
| 10                 |        |   |       | 3      | SS   | NA       |  |           |                     |
| 11                 |        |   |       |        |      |          | 24   |           |                     |
| 12                 |        | End of Borehole                                   | -12   |        |      |          |  |           |                     |
| 13                 |        |   |       |        |      |          |  |           |                     |
| 14                 |        |   |       |        |      |          |  |           |                     |

Drill Method: Geoprobe

Drill Date: 10/4/12

Hole Size: 2.25

RJN ENVIRONMENTAL, INC.  
34888 Garfield Rd,  
Fraser, MI 48026

Datum: NA

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Sheet: 1 of 1

Project No: 010105.01

### Log of Borehole: SB-7

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |   |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks             |
|--------------------|--------|---|-------|--------|------|----------|--|-----------|---------------------|
| Depth              | Symbol | Description   | Elev. | Number | Type | Recovery |  |           |                     |
| 0                  |        | Ground Surface  | 0     |        |      |          |  |           |                     |
| 0                  |        | 4" asphalt cover  |       |        |      |          |  |           |                     |
| 0-4                |        | Coarse sand and peastone FILL                                   | -4    | 1      | SS   | NA       |  |           |                     |
| 4-8                |        | Coarse sand and peastone FILL                                   | -8    | 2      | SS   | NA       |  |           |                     |
| 8-12               |        | Coarse sand FILL, black at 10 feet and saturated at 11 feet     | -12   | 3      | SS   | NA       |  |           | Bentonite chip seal |
| 12-16              |        | Saturated, medium-grained black SAND                            | -16   | 4      | SS   |          |  |           |                     |
| 16-20              |        | Saturated medium-grained gray SAND, with gray CLAY at 19.5 feet | -20   | 4      | SS   |          |  |           |                     |
| 20                 |        | End of Borehole   |       |        |      |          |  |           |                     |

Drill Method: Geoprobe

RJN ENVIRONMENTAL, INC.  
34888 Garfield Rd,  
Fraser, MI 48026

Datum: NA

Drill Date: 10/4/12

Checked by: RJN

Hole Size: 2.25

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Project No: 010105.01

### Log of Borehole: SB-8

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |   |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks             |
|--------------------|--------|---|-------|--------|------|----------|--|-----------|---------------------|
| Depth              | Symbol | Description                                       | Elev. | Number | Type | Recovery |  |           |                     |
| 0                  |        | Ground Surface                                    | 0     |        |      |          |  |           |                     |
| 0                  |        | 4" asphalt cover                                  | -0.4  |        |      |          |  |           |                     |
| 0-4                |        | Coarse grained, medium brown dry SAND             | -4    | 1      | SS   | NA       |  |           |                     |
| 4-8                |        | Moist, medium-grained, brown SAND                 | -8    | 2      | SS   | NA       |  |           |                     |
| 8-12               |        | Moist, brown, fine-grained SAND, saturated at 10' | -12   | 3      | SS   | NA       |  |           | Bentonite chip seal |
| 12                 |        | End of Borehole                                   |       |        |      |          |  |           |                     |

Drill Method: Geoprobe

RJN ENVIRONMENTAL, INC.  
34888 Garfield Rd,  
Fraser, MI 48026

Datum: NA

Drill Date: 10/4/12

Checked by: RJN

Hole Size: 2.25

Sheet: 1 of 1

Project No: 010105.01

### Log of Borehole: SB-9

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |   |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks             |
|--------------------|--------|---|-------|--------|------|----------|--|-----------|---------------------|
| Depth<br>ft m      | Symbol | Description                                       | Elev. | Number | Type | Recovery |  |           |                     |
| 0                  |        | Ground Surface                                    | 0     |        |      |          |  |           |                     |
| 0                  |        | 4" asphalt cover                                  | -0.4  |        |      |          |  |           |                     |
| 0-1                |        | Coarse grained, medium brown dry SAND             |       |        |      |          |  |           |                     |
| 1                  |        |   |       | 1      | SS   | NA       |  |           |                     |
| 1-4                |        | Moist, medium-grained, brown SAND                 |       |        |      |          |  |           |                     |
| 4                  |        |   | -4    |        |      |          |  |           |                     |
| 4-7                |        | Moist, medium-grained, brown SAND                 |       |        |      |          |  |           |                     |
| 7                  |        |   |       | 2      | SS   | NA       |  |           |                     |
| 7-8                |        | Moist, brown, fine-grained SAND, saturated at 10' |       |        |      |          |  |           |                     |
| 8                  |        |   | -8    |        |      |          |  |           | Bentonite chip seal |
| 8-10               |        | Moist, brown, fine-grained SAND, saturated at 10' |       |        |      |          |  |           |                     |
| 10                 |        |   |       | 3      | SS   | NA       |  |           |                     |
| 10-12              |        | Moist, brown, fine-grained SAND, saturated at 10' |       |        |      |          |  |           |                     |
| 12                 |        |   | -12   |        |      |          |  |           |                     |
| 12-14              |        | End of Borehole                                   |       |        |      |          |  |           |                     |

Drill Method: Geoprobe

Drill Date: 10/4/12

Hole Size: 2.25

RJN ENVIRONMENTAL, INC.  
34888 Garfield Rd,  
Fraser, MI 48026

Datum: NA

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Project No: 010105.01

### Log of Borehole: SB-10

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |   |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks             |
|--------------------|--------|---|-------|--------|------|----------|--|-----------|---------------------|
| Depth<br>ft m      | Symbol | Description                                       | Elev. | Number | Type | Recovery |  |           |                     |
| 0                  |        | Ground Surface                                    | 0     |        |      |          |  |           |                     |
| 0                  |        | 4" asphalt cover                                  | -0.4  |        |      |          |  |           |                     |
| 0-1                |        | Coarse grained, medium brown dry SAND             |       |        |      |          |  |           |                     |
| 1                  |        |   |       | 1      | SS   | NA       |  |           |                     |
| 1-4                |        | Moist, medium-grained, brown SAND                 |       |        |      |          |  |           |                     |
| 4                  |        |   | -4    |        |      |          |  |           |                     |
| 4-7                |        | Moist, medium-grained, brown SAND                 |       |        |      |          |  |           |                     |
| 7                  |        |   |       | 2      | SS   | NA       |  |           |                     |
| 7-8                |        | Moist, brown, fine-grained SAND, saturated at 10' |       |        |      |          |  |           |                     |
| 8                  |        |   | -8    |        |      |          |  |           | Bentonite chip seal |
| 8-10               |        | Moist, brown, fine-grained SAND, saturated at 10' |       |        |      |          |  |           |                     |
| 10                 |        |   |       | 3      | SS   | NA       |  |           |                     |
| 10-12              |        | Moist, brown, fine-grained SAND, saturated at 10' |       |        |      |          |  |           |                     |
| 12                 |        |   | -12   |        |      |          |  |           |                     |
| 12-14              |        | End of Borehole                                   |       |        |      |          |  |           |                     |

Drill Method: Geoprobe

Drill Date: 10/4/12

Hole Size: 2.25

RJN ENVIRONMENTAL, INC.  
34888 Garfield Rd,  
Fraser, MI 48026

Datum: NA

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Project No: 010105.01

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

### Log of Borehole: SB-11

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |   |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks             |
|--------------------|--------|---|-------|--------|------|----------|--|-----------|---------------------|
| Depth              | Symbol | Description                                       | Elev. | Number | Type | Recovery |  |           |                     |
| 0                  |        | Ground Surface                                    | 0     |        |      |          |  |           |                     |
| 0                  |        | 4" asphalt cover                                  |       |        |      |          |  |           |                     |
| 0-1                |        | Coarse grained, medium brown dry SAND             |       | 1      | SS   | NA       |  |           |                     |
| 1-4                |        | Moist, medium-grained, brown SAND                 | -4    | 2      | SS   | NA       |  |           |                     |
| 4-8                |        | Moist, brown, fine-grained SAND, saturated at 10' | -8    | 3      | SS   | NA       |  |           | Bentonite chip seal |
| 8-12               |        | Saturated, medium grained gray-brown SAND         | -12   | 4      | SS   |          |  |           |                     |
| 12-16              |        | End of Borehole                                   | -16   |        |      |          |  |           |                     |

Drill Method: Geoprobe

Drill Date: 10/4/12

Hole Size: 2.25

RJN ENVIRONMENTAL, INC.  
34888 Garfield Rd,  
Fraser, MI 48026

Datum: NA

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Project No: 010105.01

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

### Log of Borehole: SB-12

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |   |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks             |
|--------------------|--------|---|-------|--------|------|----------|--|-----------|---------------------|
| Depth              | Symbol | Description                                       | Elev. | Number | Type | Recovery |  |           |                     |
| 0                  |        | Ground Surface                                    | 0     |        |      |          |  |           |                     |
| 0                  |        | 4" asphalt cover                                  |       |        |      |          |  |           |                     |
| 0-1                |        | Coarse grained, medium brown dry SAND             |       | 1      | SS   | NA       |  |           |                     |
| 1-4                |        | Moist, medium-grained, brown SAND                 | -4    | 2      | SS   | NA       |  |           |                     |
| 4-8                |        | Moist, brown, fine-grained SAND, saturated at 10' | -8    | 3      | SS   | NA       |  |           | Bentonite chip seal |
| 8-12               |        | Saturated, medium grained gray-brown SAND         | -12   | 4      | SS   |          |  |           |                     |
| 12-16              |        | End of Borehole                                   | -16   |        |      |          |  |           |                     |

Drill Method: Geoprobe

Drill Date: 10/4/12

Hole Size: 2.25

RJN ENVIRONMENTAL, INC.  
34888 Garfield Rd,  
Fraser, MI 48026

Datum: NA

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Project No: 010105.01

### Log of Borehole: SB-13

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |   |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks             |
|--------------------|--------|---|-------|--------|------|----------|--|-----------|---------------------|
| Depth              | Symbol | Description                                       | Elev. | Number | Type | Recovery |  |           |                     |
| 0                  |        | Ground Surface                                    | 0     |        |      |          |  |           |                     |
| 0                  |        | 4" asphalt cover                                  |       |        |      |          |  |           |                     |
| 0-1                |        | Coarse grained, medium brown dry SAND             |       | 1      | SS   | NA       |  |           |                     |
| 1-4                |        | Moist, medium-grained, brown SAND                 | -4    | 2      | SS   | NA       |  |           |                     |
| 4-8                |        | Moist, brown, fine-grained SAND, saturated at 10' | -8    | 3      | SS   | NA       |  |           | Bentonite chip seal |
| 8-12               |        | Saturated, medium grained gray-brown SAND         | -12   | 4      | SS   |          |  |           |                     |
| 12-16              |        | End of Borehole                                   | -16   |        |      |          |  |           |                     |

Drill Method: Geoprobe

Drill Date: 10/4/12

Hole Size: 2.25

RJN ENVIRONMENTAL, INC.  
34888 Garfield Rd,  
Fraser, MI 48026

Datum: NA

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Project No: 010105.01

### Log of Borehole: SB-14

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |   |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks             |
|--------------------|--------|---|-------|--------|------|----------|--|-----------|---------------------|
| Depth              | Symbol | Description                                       | Elev. | Number | Type | Recovery |  |           |                     |
| 0                  |        | Ground Surface                                    | 0     |        |      |          |  |           |                     |
| 0                  |        | 4" grass and topsoil cover                        |       |        |      |          |  |           |                     |
| 0-1                |        | Coarse grained, medium brown dry SAND             |       | 1      | SS   | NA       |  |           |                     |
| 1-4                |        | Moist, medium-grained, brown SAND                 | -4    | 2      | SS   | NA       |  |           |                     |
| 4-8                |        | Moist, brown, fine-grained SAND, saturated at 10' | -8    | 3      | SS   | NA       | 38   |           | Bentonite chip seal |
| 8-12               |        | Saturated, medium grained gray-brown SAND         | -12   | 4      | SS   |          | 12   |           |                     |
| 12-16              |        | End of Borehole                                   | -16   |        |      |          |  |           |                     |

Drill Method: Geoprobe

Drill Date: 10/4/12

Hole Size: 2.25

RJN ENVIRONMENTAL, INC.  
34888 Garfield Rd,  
Fraser, MI 48026

Datum: NA

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Project No: 010105.01

### Log of Borehole: SB-15

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |   |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks             |
|--------------------|--------|---|-------|--------|------|----------|--|-----------|---------------------|
| Depth              | Symbol | Description                                       | Elev. | Number | Type | Recovery |  |           |                     |
| 0                  |        | Ground Surface                                    | 0     |        |      |          |  |           |                     |
| 0                  |        | 4" grass and topsoil cover                        |       |        |      |          |  |           |                     |
| 0-1                |        | Coarse grained, medium brown dry SAND             |       |        |      |          |  |           |                     |
| 1                  |        |   |       | 1      | SS   | NA       |  |           |                     |
| 1-4                |        | Moist, medium-grained, brown SAND                 |       |        |      |          |  |           |                     |
| 4                  |        |   | -4    |        |      |          |  |           |                     |
| 4-8                |        | Moist, medium-grained, brown SAND                 |       |        |      |          |  |           |                     |
| 8                  |        |   | -8    | 2      | SS   | NA       |  |           |                     |
| 8-10               |        | Moist, brown, fine-grained SAND, saturated at 10' |       |        |      |          |  |           | Bentonite chip seal |
| 10                 |        |   | -8    |        |      |          |  |           |                     |
| 10-12              |        | Moist, brown, fine-grained SAND, saturated at 10' |       |        |      |          |  |           |                     |
| 12                 |        |   | -12   | 3      | SS   | NA       |  |           |                     |
| 12-16              |        | Saturated, medium grained gray-brown SAND         |       |        |      |          |  |           |                     |
| 16                 |        |   | -16   | 4      | SS   |          |  |           |                     |
| 16-18              |        | End of Borehole                                   |       |        |      |          |  |           |                     |

Drill Method: Geoprobe

Drill Date: 10/4/12

Hole Size: 2.25

RJN ENVIRONMENTAL, INC.  
34888 Garfield Rd,  
Fraser, MI 48026

Datum: NA

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Project No: 010105.01

### Log of Borehole: SB-16

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |   |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks             |
|--------------------|--------|---|-------|--------|------|----------|--|-----------|---------------------|
| Depth              | Symbol | Description                                       | Elev. | Number | Type | Recovery |  |           |                     |
| 0                  |        | Ground Surface                                    | 0     |        |      |          |  |           |                     |
| 0                  |        | 4" grass and topsoil cover                        |       |        |      |          |  |           |                     |
| 0-1                |        | Coarse grained, medium brown dry SAND             |       |        |      |          |  |           |                     |
| 1                  |        |   |       | 1      | SS   | NA       |  |           |                     |
| 1-4                |        | Moist, medium-grained, brown SAND                 |       |        |      |          |  |           |                     |
| 4                  |        |   | -4    |        |      |          |  |           |                     |
| 4-8                |        | Moist, medium-grained, brown SAND                 |       |        |      |          |  |           |                     |
| 8                  |        |   | -8    | 2      | SS   | NA       |  |           |                     |
| 8-10               |        | Moist, brown, fine-grained SAND, saturated at 10' |       |        |      |          |  |           | Bentonite chip seal |
| 10                 |        |   | -8    |        |      |          |  |           |                     |
| 10-12              |        | Moist, brown, fine-grained SAND, saturated at 10' |       |        |      |          |  |           |                     |
| 12                 |        |   | -12   | 3      | SS   | NA       |  |           |                     |
| 12-16              |        | End of Borehole                                   |       |        |      |          |  |           |                     |

Drill Method: Geoprobe

Drill Date: 10/4/12

Hole Size: 2.25

RJN ENVIRONMENTAL, INC.  
34888 Garfield Rd,  
Fraser, MI 48026

Datum: NA

Checked by: RJN

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Project No: 010105.01

### Log of Borehole: SB-17

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |   |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks             |
|--------------------|--------|---|-------|--------|------|----------|--|-----------|---------------------|
| Depth              | Symbol | Description                                       | Elev. | Number | Type | Recovery |  |           |                     |
| 0                  |        | Ground Surface                                    | 0     |        |      |          |  |           |                     |
| 0                  |        | 4" grass and topsoil cover                        | -0.4  |        |      |          |  |           |                     |
| 0-1                |        | Coarse grained, medium brown dry SAND             |       |        |      |          |  |           |                     |
| 1                  |        |   |       | 1      | SS   | NA       |  |           |                     |
| 1-4                |        | Moist, medium-grained, brown SAND                 |       |        |      |          |  |           |                     |
| 4                  |        |   | -4    |        |      |          |  |           |                     |
| 4-8                |        | Moist, medium-grained, brown SAND                 |       |        |      |          |  |           |                     |
| 6                  |        |   |       | 2      | SS   | NA       |  |           |                     |
| 8                  |        |   | -8    |        |      |          |  |           | Bentonite chip seal |
| 8-10               |        | Moist, brown, fine-grained SAND, saturated at 10' |       |        |      |          |  |           |                     |
| 10                 |        |   |       | 3      | SS   | NA       |  |           |                     |
| 10-12              |        | Moist, brown, fine-grained SAND, saturated at 10' |       |        |      |          |  |           |                     |
| 12                 |        |   | -12   |        |      |          |  |           |                     |
| 12                 |        | End of Borehole                                   |       |        |      |          |  |           |                     |

Drill Method: Geoprobe

Drill Date: 10/5/12

Hole Size: 2.25

RJN ENVIRONMENTAL, INC.  
34888 Garfield Rd,  
Fraser, MI 48026

Datum: NA

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Project No: 010105.01

### Log of Borehole: SB-18

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |  |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks             |
|--------------------|--------|--|-------|--------|------|----------|--|-----------|---------------------|
| Depth              | Symbol | Description  | Elev. | Number | Type | Recovery |  |           |                     |
| 0                  |        | Ground Surface                                     | 0     |        |      |          |  |           |                     |
| 0                  |        | 4" grass and topsoil cover                         | -0.4  |        |      |          |  |           |                     |
| 0-1                |        | Coarse grained, medium brown dry SAND              |       |        |      |          |  |           |                     |
| 1                  |        |  |       | 1      | SS   | NA       |  |           |                     |
| 1-4                |        | Moist, medium-grained, brown SAND                  |       |        |      |          |  |           |                     |
| 4                  |        |  | -4    |        |      |          |  |           |                     |
| 4-8                |        | Moist, medium-grained, brown SAND, saturated at 8' |       |        |      |          |  |           |                     |
| 6                  |        |  |       | 2      | SS   | NA       |  |           |                     |
| 8                  |        |  | -8    |        |      |          |  |           | Bentonite chip seal |
| 8-10               |        | Moist, brown, fine-grained SAND, saturated at 8'   |       |        |      |          |  |           |                     |
| 10                 |        |  |       | 3      | SS   | NA       |  |           |                     |
| 10-12              |        | Moist, brown, fine-grained SAND, saturated at 8'   |       |        |      |          |  |           |                     |
| 12                 |        |  | -12   |        |      |          |  |           |                     |
| 12                 |        | End of Borehole                                    |       |        |      |          |  |           |                     |

Drill Method: Geoprobe

Drill Date: 10/5/12

Hole Size: 2.25

RJN ENVIRONMENTAL, INC.  
34888 Garfield Rd,  
Fraser, MI 48026

Datum: NA

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Project No: 010105.01

### Log of Borehole: SB-19

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |  |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks             |
|--------------------|--------|--|-------|--------|------|----------|--|-----------|---------------------|
| Depth              | Symbol | Description  | Elev. | Number | Type | Recovery |  |           |                     |
| 0                  |        | Ground Surface                                     | 0     |        |      |          |  |           |                     |
| 0                  |        | 4" concrete cover                                  | -0.4  |        |      |          |  |           |                     |
| 0-4                |        | Coarse grained, medium brown dry SAND              |       | 1      | SS   | NA       |  |           |                     |
| 4-8                |        | Moist, medium-grained, brown SAND, saturated at 8' |       | 2      | SS   | NA       |  |           |                     |
| 8-12               |        | Moist, brown, fine-grained SAND, saturated at 8'   |       | 3      | SS   | NA       |  |           | Bentonite chip seal |
| 12                 |        | End of Borehole                                    | -12   |        |      |          |  |           |                     |

Drill Method: Geoprobe

Drill Date: 10/5/12

Hole Size: 2.25

RJN ENVIRONMENTAL, INC.  
34888 Garfield Rd,  
Fraser, MI 48026

Datum: NA

Checked by: RJN

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Project No: 010105.01

### Log of Borehole: SB-20

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |  |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks             |
|--------------------|--------|--|-------|--------|------|----------|--|-----------|---------------------|
| Depth              | Symbol | Description  | Elev. | Number | Type | Recovery |  |           |                     |
| 0                  |        | Ground Surface                                     | 0     |        |      |          |  |           |                     |
| 0                  |        | 4" grass and topsoil cover                         | -0.4  |        |      |          |  |           |                     |
| 0-4                |        | Coarse grained, medium brown dry SAND              |       | 1      | SS   | NA       |  |           |                     |
| 4-8                |        | Moist, medium-grained, brown SAND, saturated at 8' |       | 2      | SS   | NA       |  |           |                     |
| 8-12               |        | Moist, brown, fine-grained SAND, saturated at 8'   |       | 3      | SS   | NA       |  |           | Bentonite chip seal |
| 12                 |        | End of Borehole                                    | -12   |        |      |          |  |           |                     |

Drill Method: Geoprobe

Drill Date: 10/5/12

Hole Size: 2.25

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34888 Garfield Rd,  
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Datum: NA

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Project No: 010105.01

### Log of Borehole: SB-21

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |  |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks             |
|--------------------|--------|--|-------|--------|------|----------|--|-----------|---------------------|
| Depth              | Symbol | Description  | Elev. | Number | Type | Recovery |  |           |                     |
| 0                  |        | Ground Surface                                     | 0     |        |      |          |  |           |                     |
| 0                  |        | 4" grass and topsoil cover                         | -0.4  |        |      |          |  |           |                     |
| 0-1                |        | Coarse grained, medium brown dry SAND              |       |        |      |          |  |           |                     |
| 1-4                |        |  |       | 1      | SS   | NA       |  |           |                     |
| 4-8                |        | Moist, medium-grained, brown SAND, saturated at 8' |       |        |      |          |  |           |                     |
| 4-7                |        |  |       | 2      | SS   | NA       |  |           |                     |
| 8-12               |        | Moist, brown, fine-grained SAND, saturated at 8'   |       |        |      |          |  |           | Bentonite chip seal |
| 8-11               |        |  |       | 3      | SS   | NA       |  |           |                     |
| 12-14              |        | End of Borehole                                    |       |        |      |          |  |           |                     |

Drill Method: Geoprobe

Drill Date: 10/5/12

Hole Size: 2.25

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34888 Garfield Rd,  
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Project No: 010105.01

### Log of Borehole: SB-22

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |  |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks             |
|--------------------|--------|--|-------|--------|------|----------|--|-----------|---------------------|
| Depth              | Symbol | Description  | Elev. | Number | Type | Recovery |  |           |                     |
| 0                  |        | Ground Surface                                     | 0     |        |      |          |  |           |                     |
| 0                  |        | 4" grass and topsoil cover                         | -0.4  |        |      |          |  |           |                     |
| 0-1                |        | Coarse grained, medium brown dry SAND              |       |        |      |          |  |           |                     |
| 1-4                |        |  |       | 1      | SS   | NA       |  |           |                     |
| 4-8                |        | Moist, medium-grained, brown SAND, saturated at 8' |       |        |      |          |  |           |                     |
| 4-7                |        |  |       | 2      | SS   | NA       |  |           |                     |
| 8-12               |        | Moist, brown, fine-grained SAND, saturated at 8'   |       |        |      |          |  |           | Bentonite chip seal |
| 8-11               |        |  |       | 3      | SS   | NA       |  |           |                     |
| 12-14              |        | End of Borehole                                    |       |        |      |          |  |           |                     |

Drill Method: Geoprobe

Drill Date: 10/5/12

Hole Size: 2.25

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Project No: 010105.01

### Log of Borehole: SB-23

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |   |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks             |
|--------------------|--------|---|-------|--------|------|----------|--|-----------|---------------------|
| Depth              | Symbol | Description                                       | Elev. | Number | Type | Recovery |  |           |                     |
| 0                  |        | Ground Surface                                    | 0     |        |      |          |  |           |                     |
| 0                  |        | 4" grass and topsoil cover                        | -0.4  |        |      |          |  |           |                     |
| 1                  |        | Coarse grained, medium brown dry SAND             |       | 1      | SS   | NA       |  |           |                     |
| 3                  |        |   |       |        |      |          |  |           |                     |
| 4                  |        | Moist, medium-grained, brown SAND                 | -4    |        |      |          |  |           |                     |
| 6                  |        |   |       |        | 2    | SS       | NA   |           |                     |
| 7                  |        |   |       |        |      |          |  |           |                     |
| 8                  |        | Moist, brown, fine-grained SAND, saturated at 10' | -8    |        |      |          |  |           | Bentonite chip seal |
| 10                 |        |   |       |        | 3    | SS       | NA   |           |                     |
| 12                 |        | End of Borehole                                   | -12   |        |      |          |  |           |                     |

Drill Method: Geoprobe

Drill Date: 10/5/12

Hole Size: 2.25

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Datum: NA

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Project No: 010105.01

### Log of Borehole: SB-24

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |   |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks             |
|--------------------|--------|---|-------|--------|------|----------|--|-----------|---------------------|
| Depth              | Symbol | Description                                       | Elev. | Number | Type | Recovery |  |           |                     |
| 0                  |        | Ground Surface                                    | 0     |        |      |          |  |           |                     |
| 0                  |        | 4" grass and topsoil cover                        | -0.4  |        |      |          |  |           |                     |
| 1                  |        | Coarse grained, medium brown dry SAND             |       | 1      | SS   | NA       |  |           |                     |
| 3                  |        |   |       |        |      |          |  |           |                     |
| 4                  |        | Moist, medium-grained, brown SAND                 | -4    |        |      |          |  |           |                     |
| 6                  |        |   |       |        | 2    | SS       | NA   |           |                     |
| 7                  |        |   |       |        |      |          |  |           |                     |
| 8                  |        | Moist, brown, fine-grained SAND, saturated at 10' | -8    |        |      |          |  |           | Bentonite chip seal |
| 10                 |        |   |       |        | 3    | SS       | NA   |           |                     |
| 12                 |        | End of Borehole                                   | -12   |        |      |          |  |           |                     |

Drill Method: Geoprobe

Drill Date: 10/8/12

Hole Size: 2.25

RJN ENVIRONMENTAL, INC.  
34888 Garfield Rd,  
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Project No: 010105.01

### Log of Borehole: SB-25

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |   |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks |
|--------------------|--------|---|-------|--------|------|----------|--|-----------|---------|
| Depth              | Symbol | Description                                       | Elev. | Number | Type | Recovery |  |           |         |
| 0                  |        | Ground Surface                                    | 0     |        |      |          |  |           |         |
| 0                  |        | 4" asphalt cover                                  | -0.4  |        |      |          |  |           |         |
| 1                  |        | Coarse grained, medium brown dry SAND             |       |        |      |          |  |           |         |
| 2                  |        |   |       | 1      | SS   | NA       |  |           |         |
| 3                  |        |   |       |        |      |          |  |           |         |
| 4                  |        |   | -4    |        |      |          |  |           |         |
| 5                  |        | Moist, medium-grained, brown SAND                 |       |        |      |          |  |           |         |
| 6                  |        |   |       | 2      | SS   | NA       |  |           |         |
| 7                  |        |   |       |        |      |          |  |           |         |
| 8                  |        |   | -8    |        |      |          |  |           |         |
| 9                  |        | Moist, brown, fine-grained SAND, saturated at 10' |       |        |      |          |  |           |         |
| 10                 |        |   |       | 3      | SS   | NA       |  |           |         |
| 11                 |        |   |       |        |      |          |  |           |         |
| 12                 |        |   | -12   |        |      |          |  |           |         |
| 13                 |        | End of Borehole                                   |       |        |      |          |  |           |         |
| 14                 |        |   |       |        |      |          |  |           |         |

Drill Method: Geoprobe

Drill Date: 10/8/12

Hole Size: 2.25

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34888 Garfield Rd,  
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Project No: 010105.01

### Log of Borehole: SB-26

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |   |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks |
|--------------------|--------|---|-------|--------|------|----------|--|-----------|---------|
| Depth              | Symbol | Description                                       | Elev. | Number | Type | Recovery |  |           |         |
| 0                  |        | Ground Surface                                    | 0     |        |      |          |  |           |         |
| 0                  |        | 4" grass and topsoil cover                        | -0.4  |        |      |          |  |           |         |
| 1                  |        | Coarse grained, medium brown dry SAND             |       |        |      |          |  |           |         |
| 2                  |        |   |       | 1      | SS   | NA       |  |           |         |
| 3                  |        |   |       |        |      |          |  |           |         |
| 4                  |        |   | -4    |        |      |          |  |           |         |
| 5                  |        | Moist, medium-grained, brown SAND                 |       |        |      |          |  |           |         |
| 6                  |        |   |       | 2      | SS   | NA       |  |           |         |
| 7                  |        |   |       |        |      |          |  |           |         |
| 8                  |        |   | -8    |        |      |          |  |           |         |
| 9                  |        | Moist, brown, fine-grained SAND, saturated at 10' |       |        |      |          |  |           |         |
| 10                 |        |   |       | 3      | SS   | NA       |  |           |         |
| 11                 |        |   |       |        |      |          |  |           |         |
| 12                 |        |   | -12   |        |      |          |  |           |         |
| 13                 |        | End of Borehole                                   |       |        |      |          |  |           |         |
| 14                 |        |   |       |        |      |          |  |           |         |

Drill Method: Geoprobe

Drill Date: 10/8/12

Hole Size: 2.25

RJN ENVIRONMENTAL, INC.  
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Project No: 010105.01

### Log of Borehole: SB-27

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |  |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks             |
|--------------------|--------|--|-------|--------|------|----------|--|-----------|---------------------|
| Depth              | Symbol | Description                                    | Elev. | Number | Type | Recovery |  |           |                     |
| 0                  |        | Ground Surface                                 | 0     |        |      |          |  |           |                     |
| 0                  |        | 4" concrete cover                              | -0.4  |        |      |          |  |           |                     |
| 0                  |        | Coarse sand and peastone FILL                  |       |        |      |          |  |           |                     |
| 1                  |        |  |       | 1      | SS   | NA       |  |           |                     |
| 2                  |        |  |       |        |      |          |  |           |                     |
| 3                  |        |  |       |        |      |          |  |           |                     |
| 4                  |        | Medium sand and peastone FILL                  | -4    |        |      |          |  |           |                     |
| 5                  |        |  |       | 2      | SS   | NA       |  |           |                     |
| 6                  |        |  |       |        |      |          |  |           |                     |
| 7                  |        |  |       |        |      |          |  |           |                     |
| 8                  |        | Black sand and peastone FILL, saturated at 10' | -8    |        |      |          |  |           | Bentonite chip seal |
| 9                  |        |  |       | 3      | SS   | NA       |  |           |                     |
| 10                 |        |  |       |        |      |          |  |           |                     |
| 11                 |        |  |       |        |      |          |  |           |                     |
| 12                 |        | End of Borehole                                | -12   |        |      |          |  |           |                     |
| 13                 |        |  |       |        |      |          |  |           |                     |
| 14                 |        |  |       |        |      |          |  |           |                     |

Drill Method: Geoprobe

Drill Date: 10/8/12

Hole Size: 2.25

RJN ENVIRONMENTAL, INC.  
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Datum: NA

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Project No: 010105.01

### Log of Borehole: SB-28

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |   |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks             |
|--------------------|--------|---|-------|--------|------|----------|--|-----------|---------------------|
| Depth              | Symbol | Description                                       | Elev. | Number | Type | Recovery |  |           |                     |
| 0                  |        | Ground Surface                                    | 0     |        |      |          |  |           |                     |
| 0                  |        | 4" grass and topsoil cover                        | -0.4  |        |      |          |  |           |                     |
| 0                  |        | Coarse grained, medium brown dry SAND             |       |        |      |          |  |           |                     |
| 1                  |        |   |       | 1      | SS   | NA       |  |           |                     |
| 2                  |        |   |       |        |      |          |  |           |                     |
| 3                  |        |   |       |        |      |          |  |           |                     |
| 4                  |        | Moist, medium-grained, brown SAND                 | -4    |        |      |          |  |           |                     |
| 5                  |        |   |       | 2      | SS   | NA       |  |           |                     |
| 6                  |        |   |       |        |      |          |  |           |                     |
| 7                  |        |   |       |        |      |          |  |           |                     |
| 8                  |        | Moist, brown, fine-grained SAND, saturated at 10' | -8    |        |      |          |  |           | Bentonite chip seal |
| 9                  |        |   |       | 3      | SS   | NA       |  |           |                     |
| 10                 |        |   |       |        |      |          |  |           |                     |
| 11                 |        |   |       |        |      |          |  |           |                     |
| 12                 |        | End of Borehole                                   | -12   |        |      |          |  |           |                     |
| 13                 |        |   |       |        |      |          |  |           |                     |
| 14                 |        |   |       |        |      |          |  |           |                     |

Drill Method: Geoprobe

Drill Date: 10/8/12

Hole Size: 2.25

RJN ENVIRONMENTAL, INC.  
34888 Garfield Rd,  
Fraser, MI 48026

Datum: NA

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Project No: 010105.01

### Log of Borehole: SB-29

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |   |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks             |
|--------------------|--------|---|-------|--------|------|----------|--|-----------|---------------------|
| Depth              | Symbol | Description                                       | Elev. | Number | Type | Recovery |  |           |                     |
| 0                  |        | Ground Surface                                    | 0     |        |      |          |  |           |                     |
| 0                  |        | 4" grass and topsoil cover                        | -0.4  |        |      |          |  |           |                     |
| 0.5                |        | Coarse grained, medium brown dry SAND             |       |        |      |          |  |           |                     |
| 1.5                |        |   |       | 1      | SS   | NA       |  |           |                     |
| 4                  |        | Moist, medium-grained, brown SAND                 | -4    |        |      |          |  |           |                     |
| 6.5                |        |   |       | 2      | SS   | NA       |  |           |                     |
| 8                  |        | Moist, brown, fine-grained SAND, saturated at 10' | -8    |        |      |          |  |           | Bentonite chip seal |
| 10.5               |        |   |       | 3      | SS   | NA       |  |           |                     |
| 12                 |        | End of Borehole                                   | -12   |        |      |          |  |           |                     |

Drill Method: Geoprobe

Drill Date: 10/8/12

Hole Size: 2.25

RJN ENVIRONMENTAL, INC.  
34888 Garfield Rd,  
Fraser, MI 48026

Datum: NA

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Project No: 010105.01

### Log of Borehole: SB-30

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |   |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks             |
|--------------------|--------|---|-------|--------|------|----------|--|-----------|---------------------|
| Depth              | Symbol | Description                                       | Elev. | Number | Type | Recovery |  |           |                     |
| 0                  |        | Ground Surface                                    | 0     |        |      |          |  |           |                     |
| 0                  |        | 4" grass and topsoil cover                        | -0.4  |        |      |          |  |           |                     |
| 0.5                |        | Coarse grained, medium brown dry SAND             |       |        |      |          |  |           |                     |
| 1.5                |        |   |       | 1      | SS   | NA       |  |           |                     |
| 4                  |        | Moist, medium-grained, brown SAND                 | -4    |        |      |          |  |           |                     |
| 6.5                |        |   |       | 2      | SS   | NA       |  |           |                     |
| 8                  |        | Moist, brown, fine-grained SAND, saturated at 10' | -8    |        |      |          |  |           | Bentonite chip seal |
| 10.5               |        |   |       | 3      | SS   | NA       |  |           |                     |
| 12                 |        | End of Borehole                                   | -12   |        |      |          |  |           |                     |

Drill Method: Geoprobe

Drill Date: 10/8/12

Hole Size: 2.25

RJN ENVIRONMENTAL, INC.  
34888 Garfield Rd,  
Fraser, MI 48026

Datum: NA

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Project No: 010105.01

### Log of Borehole: HA-1

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |  |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks             |
|--------------------|--------|--|-------|--------|------|----------|--|-----------|---------------------|
| Depth              | Symbol | Description  | Elev. | Number | Type | Recovery |  |           |                     |
| 0                  |        | Ground Surface                                     | 0     |        |      |          |  |           |                     |
| 0                  |        | 4" grass and topsoil cover                         |       |        |      |          |  |           |                     |
| 0-1                |        | Coarse grained, medium brown dry SAND              |       | 1      | SS   | NA       |  |           |                     |
| 1                  |        |  | 2     | SS     | NA   |          |  |           |                     |
| 2                  |        |  | 3     | SS     |      |          |  |           |                     |
| 3                  |        |  | 4     | SS     |      |          |  |           |                     |
| 4                  |        | Moist, medium-grained, brown SAND, saturated at 8' | -4    | 5      | SS   |          |  |           |                     |
| 5                  |        |  | 6     | SS     |      |          |  |           |                     |
| 6                  |        |  | 7     | SS     |      |          |  |           |                     |
| 7                  |        |  | 8     | SS     |      |          |  |           |                     |
| 8                  |        | End of Borehole                                    | -8    |        |      |          |  |           | Bentonite chip seal |

Drill Method: Geoprobe

Drill Date: 10/9/12

Hole Size: 2.25

RJN ENVIRONMENTAL, INC.  
34888 Garfield Rd,  
Fraser, MI 48026

Datum: NA

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Project No: 010105.01

### Log of Borehole: HA-2

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |  |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks             |
|--------------------|--------|--|-------|--------|------|----------|--|-----------|---------------------|
| Depth              | Symbol | Description  | Elev. | Number | Type | Recovery |  |           |                     |
| 0                  |        | Ground Surface                                     | 0     |        |      |          |  |           |                     |
| 0                  |        | 4" grass and topsoil cover                         |       |        |      |          |  |           |                     |
| 0-1                |        | Coarse grained, medium brown dry SAND              |       | 1      | SS   | NA       |  |           |                     |
| 1                  |        |  | 2     | SS     | NA   |          |  |           |                     |
| 2                  |        |  | 3     | SS     |      |          |  |           |                     |
| 3                  |        |  | 4     | SS     |      |          |  |           |                     |
| 4                  |        | Moist, medium-grained, brown SAND, saturated at 8' | -4    | 5      | SS   |          |  |           |                     |
| 5                  |        |  | 6     | SS     |      |          |  |           |                     |
| 6                  |        |  | 7     | SS     |      |          |  |           |                     |
| 7                  |        |  | 8     | SS     |      |          |  |           |                     |
| 8                  |        | End of Borehole                                    | -8    |        |      |          |  |           | Bentonite chip seal |

Drill Method: Geoprobe

Drill Date: 10/9/12

Hole Size: 2.25

RJN ENVIRONMENTAL, INC.  
34888 Garfield Rd,  
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Datum: NA

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Project No: 010105.01

### Log of Borehole: HA-3

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |  |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks             |
|--------------------|--------|--|-------|--------|------|----------|--|-----------|---------------------|
| Depth              | Symbol | Description  | Elev. | Number | Type | Recovery |  |           |                     |
| 0                  |        | Ground Surface                                     | 0     |        |      |          |  |           |                     |
| 0                  |        | 4" grass and topsoil cover                         |       |        |      |          |  |           |                     |
| 0-1                |        | Coarse grained, medium brown dry SAND              |       | 1      | SS   | NA       |  |           |                     |
| 1-2                |        |  |       | 2      | SS   | NA       |  |           |                     |
| 2-3                |        |  |       | 3      | SS   |          |  |           |                     |
| 3-4                |        |  |       | 4      | SS   |          |  |           |                     |
| 4                  |        | Moist, medium-grained, brown SAND, saturated at 8' | -4    | 5      | SS   |          |  |           |                     |
| 5-6                |        |  |       | 6      | SS   |          |  |           |                     |
| 6-7                |        |  |       | 7      | SS   |          |  |           | Bentonite chip seal |
| 7-8                |        |  |       | 8      | SS   |          |  |           |                     |
| 8                  |        | End of Borehole                                    | -8    |        |      |          |  |           |                     |

Drill Method: Geoprobe

Drill Date: 10/9/12

Hole Size: 2.25

RJN ENVIRONMENTAL, INC.  
34888 Garfield Rd,  
Fraser, MI 48026

Datum: NA

Checked by: RJN

Sheet: 1 of 1

Project No: 010105.01

### Log of Borehole: HA-4

Project: Former Ethyl Corp

Client: Cedan Holdings VI, LLC

Location: Ferndale, Michigan

Driller: Terra Probe

Geologist/Engineer: Robert Nowakowski

| SUBSURFACE PROFILE |        |  |       | SAMPLE |      |          | Volatile Organic Concentration<br>ppm<br>100 200 300 400 | Well Data | Remarks             |
|--------------------|--------|--|-------|--------|------|----------|--|-----------|---------------------|
| Depth              | Symbol | Description  | Elev. | Number | Type | Recovery |  |           |                     |
| 0                  |        | Ground Surface                                     | 0     |        |      |          |  |           |                     |
| 0                  |        | 4" grass and topsoil cover                         |       |        |      |          |  |           |                     |
| 0-1                |        | Coarse grained, medium brown dry SAND              |       | 1      | SS   | NA       |  |           |                     |
| 1-2                |        |  |       | 2      | SS   | NA       |  |           |                     |
| 2-3                |        |  |       | 3      | SS   |          |  |           |                     |
| 3-4                |        |  |       | 4      | SS   |          |  |           |                     |
| 4                  |        | Moist, medium-grained, brown SAND, saturated at 8' | -4    | 5      | SS   |          |  |           |                     |
| 5-6                |        |  |       | 6      | SS   |          |  |           |                     |
| 6-7                |        |  |       | 7      | SS   |          |  |           | Bentonite chip seal |
| 7-8                |        |  |       | 8      | SS   |          |  |           |                     |
| 8                  |        | End of Borehole                                    | -8    |        |      |          |  |           |                     |

Drill Method: Geoprobe

Drill Date: 10/9/12

Hole Size: 2.25

RJN ENVIRONMENTAL, INC.  
34888 Garfield Rd,  
Fraser, MI 48026

Datum: NA

Checked by: RJN

Sheet: 1 of 1





# Boring Log .

**Project No.:** 01-6124-1-001

**Boring No.:** SB-1

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 12/8/2015

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** KL

**Sampling Method:** 2.125" MC

| SUBSURFACE PROFILE |                |  | SAMPLE             |             | No Well Installed |
|--------------------|----------------|--|--------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample # Depth     | Blow Counts |                   |
| 0                  |                | Ground Surface   |                    |             |                   |
|                    |                | <b>GRASS/TOPSOIL</b>   |                    | -           | 0.0               |
|                    |                | <b>CL- (Stiff) CLAY (moist)</b><br>Brown, trace gravel and sand          |                    | -           | 0.0               |
| 2                  |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 4                  |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 6                  |                | <b>CL- (Medium Stiff) CLAY (moist)</b><br>Gray/Brown, trace brick debris | SS-1<br>5.0 ~ 6.0' | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 8                  |                | <b>CL- (Soft) CLAY (moist)</b><br>Gray                                   |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 10                 |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 12                 |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 14                 |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 16                 |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 18                 |                | <b>OH- (Soft) ORGANIC (moist)</b><br>Gray                                |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 20                 |                |  |                    |             |                   |

**Completion Notes:** EOB @ 20' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-1-001

**Boring No.:** SB-2

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 12/8/2015

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** KL

**Sampling Method:** 2.125" MC

| SUBSURFACE PROFILE |                |  | SAMPLE             |             | No Well Installed |
|--------------------|----------------|--|--------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample #<br>Depth  | Blow Counts |                   |
| 0                  |                | Ground Surface   |                    |             |                   |
|                    |                | <b>GRASS/TOPSOIL</b>   |                    | -           | 0.0               |
|                    |                | <b>GW- (Loose) GRAVELLY SAND (moist)</b><br>Brown, medium coarse |                    | -           | 0.0               |
| 2                  |                |  |                    | -           | 0.0               |
|                    |                | <b>CL- (Stiff) CLAY (moist)</b><br>Gray/Brown, trace gravel      | SS-1<br>3.0 ~ 4.0' | -           | 0.0               |
| 4                  |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 6                  |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 8                  |                |  |                    | -           | 0.0               |
|                    |                | <b>CL- (Medium Soft) SILTY CLAY (moist)</b><br>Gray              |                    | -           | 0.0               |
| 10                 |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 12                 |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 14                 |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 16                 |                |  |                    |             |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Well Log .

**Project No.:** 01-6124-1-001

**Well No.:** SB/TMW-3

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 12/8/2015

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** KL

**Sampling Method:** 2.125" MC

| SUBSURFACE PROFILE |                |   | SAMPLE         |             |           | Groundwater Well Completion Details   |
|--------------------|----------------|---|----------------|-------------|-----------|---|
| Depth (ft.)        | Boring Profile | Description and Comments  | Sample # Depth | Blow Counts | PID (ppm) |   |
| 0                  |                | Ground Surface  |                |             |           | <p>1" PVC Casing</p> <p>Ground Surface</p> <p>8.95'</p> <p>Approximate Water Level (9.27')</p> <p>13.95'</p> <p>1" 10-Slot PVC Screen</p> |
| 0                  |                | <b>GRASS/TOPSOIL</b>  |                | -           | 0.0       |   |
| 0                  |                | <b>SC- (Medium Dense) CLAYEY SAND (moist)</b><br>Dark Brown, fine, with brick debris and gravel |                | -           | 0.0       |   |
| 2                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine  |                | -           | 0.0       |   |
| 2                  |                |   |                | -           | 0.0       |   |
| 4                  |                |   |                | -           | 0.0       |   |
| 4                  |                |   |                | -           | 0.0       |   |
| 6                  |                |   |                | -           | 0.0       |   |
| 6                  |                |   |                | -           | 0.0       |   |
| 8                  |                |   |                | -           | 0.0       |   |
| 8                  |                |   |                | -           | 0.0       |   |
| 10                 |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, fine  |                | -           | 0.0       |   |
| 10                 |                |   |                | -           | 0.0       |   |
| 12                 |                |   |                | -           | 0.0       |   |
| 12                 |                |   |                | -           | 0.0       |   |
| 14                 |                | <b>SP- (Loose) SAND (saturated)</b><br>Gray, fine   |                | -           | 0.0       |   |
| 14                 |                |   |                | -           | 0.0       |   |
| 16                 |                |   |                |             |           |   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted



# Well Log .

**Project No.:** 01-6124-1-001

**Well No.:** SB/TMW-3R

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 3/1/2016

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** BTL

**Sampling Method:** GRAB/MC

| SUBSURFACE PROFILE |                |   | SAMPLE             |             |           | Groundwater Well Completion Details |
|--------------------|----------------|---|--------------------|-------------|-----------|-------------------------------------|
| Depth (ft.)        | Boring Profile | Description and Comments  | Sample # Depth     | Blow Counts | PID (ppm) |                                     |
| 0                  |                | Ground Surface  |                    |             |           |                                     |
| 0                  |                | <b>GRASS/TOP SOIL</b>   |                    | -           | 0.0       |                                     |
| 0                  |                | <b>SC- (Medium Dense) CLAYEY SAND (moist)</b><br>Trace gravel and brick |                    | -           | 0.0       |                                     |
| 2                  |                |   |                    | -           | 0.0       |                                     |
| 4                  |                | <b>SC- (Loose) SAND (saturated)</b><br>Light Brown, fine                | SS-1<br>3.0 - 4.0' | -           | 0.0       |                                     |
| 4                  |                |   |                    | -           | 0.0       |                                     |
| 6                  |                |   |                    | -           | 0.0       |                                     |
| 6                  |                |   |                    | -           | 0.0       |                                     |
| 8                  |                |   |                    | -           | 0.0       |                                     |
| 8                  |                |   |                    | -           | 0.0       |                                     |
| 10                 |                | <b>SP- (Medium Dense) SAND (saturated)</b><br>Brown/Gray, fine          |                    | -           | 0.0       |                                     |
| 10                 |                |   |                    | -           | 0.0       |                                     |
| 12                 |                |   |                    | -           | 0.0       |                                     |
| 12                 |                |   |                    | -           | 0.0       |                                     |
| 14                 |                |   |                    | -           | 0.0       |                                     |
| 14                 |                |   |                    | -           | 0.0       |                                     |
| 16                 |                |   |                    | -           | 0.0       |                                     |
| 16                 |                |   |                    | -           | 0.0       |                                     |
| 18                 |                |   |                    | -           | 0.0       |                                     |
| 18                 |                |   |                    | -           | 0.0       |                                     |
| 20                 |                |   |                    | -           | 0.0       |                                     |

**Completion Notes:** EOB @ 20' bgs. Hole filled with bentonite and soil cuttings.

1. The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
2. Boring backfilled with natural soils unless otherwise noted



# Well Log .

**Project No.:** 01-6124-1-001

**Well No.:** SB/TMW-4

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 12/8/2015

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** KL

**Sampling Method:** 2.125" MC

| SUBSURFACE PROFILE |                |  | SAMPLE             |             |           | Groundwater Well Completion Details   |
|--------------------|----------------|--|--------------------|-------------|-----------|---|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample # Depth     | Blow Counts | PID (ppm) |   |
| 0                  |                | Ground Surface   |                    |             |           | <p>1" PVC Casing</p> <p>Ground Surface</p> <p>7.36'</p> <p>Approximate Water Level (8.52')</p> <p>1" 10-Slot PVC Screen</p> <p>12.36'</p> |
|                    |                | <b>GRASS/TOPSOIL</b>   |                    | -           | 0.0       |   |
|                    |                | <b>SC- (Medium Dense) CLAYEY SAND (moist)</b><br>Dark Gray, fine | SS-1<br>1.0 ~ 2.0' | -           | 0.0       |   |
| 2                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine                   |                    | -           | 0.0       |   |
| 4                  |                |  |                    | -           | 0.0       |   |
| 6                  |                |  |                    | -           | 0.0       |   |
| 8                  |                |  |                    | -           | 0.0       |   |
| 10                 |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, fine               |                    | -           | 0.0       |   |
| 12                 |                |  |                    | -           | 0.0       |   |
| 14                 |                |  |                    | -           | 0.0       |   |
| 16                 |                |  |                    | -           | 0.0       |   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted



# Well Log .

**Project No.:** 01-6124-1-001

**Well No.:** SB/TMW-5

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 12/8/2015

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** KL

**Sampling Method:** 2.125" MC

| SUBSURFACE PROFILE |                |  | SAMPLE             |             |           | Groundwater Well Completion Details   |
|--------------------|----------------|--|--------------------|-------------|-----------|---|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample # Depth     | Blow Counts | PID (ppm) |   |
| 0                  |                | Ground Surface   |                    |             |           | <p>1" PVC Casing</p> <p>Ground Surface</p> <p>7.16'</p> <p>Approximate Water Level (8.38')</p> <p>1" 10-Slot PVC Screen</p> <p>12.16'</p> |
|                    |                | <b>GRASS/TOPSOIL</b>   |                    | -           | 0.0       |   |
|                    |                | <b>SC- (Medium Dense) CLAYEY SAND (moist)</b><br>Dark Gray, fine | SS-1<br>1.0 ~ 2.0' | -           | 0.0       |   |
| 2                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine                   |                    | -           | 0.0       |   |
|                    |                |  |                    | -           | 0.0       |   |
| 4                  |                |  |                    | -           | 0.0       |   |
|                    |                |  |                    | -           | 0.0       |   |
| 6                  |                |  |                    | -           | 0.0       |   |
|                    |                |  |                    | -           | 0.0       |   |
| 8                  |                | <b>SP- (Loose) SAND (saturated)</b><br>Gray, fine                |                    | -           | 0.3       |   |
|                    |                |  |                    | -           | 0.7       |   |
| 10                 |                |  |                    | -           | 0.2       |   |
|                    |                |  |                    | -           | 0.0       |   |
| 12                 |                |  |                    | -           | 0.0       |   |
|                    |                |  |                    | -           | 0.0       |   |
| 14                 |                |  |                    | -           | 0.0       |   |
|                    |                |  |                    | -           | 0.0       |   |
| 16                 |                |  |                    |             |           |   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted



# Well Log .

**Project No.:** 01-6124-1-001

**Well No.:** SB/TMW-6

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 12/8/2015

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** KL

**Sampling Method:** 2.125" MC

| SUBSURFACE PROFILE |                |   | SAMPLE             |             |           | Groundwater Well Completion Details   |
|--------------------|----------------|---|--------------------|-------------|-----------|---|
| Depth (ft.)        | Boring Profile | Description and Comments                                | Sample # Depth     | Blow Counts | PID (ppm) |   |
| 0                  |                | Ground Surface  |                    |             |           | <p>1" PVC Casing</p> <p>Ground Surface</p> <p>7.05'</p> <p>Approximate Water Level (7.99')</p> <p>1" 10-Slot PVC Screen</p> <p>12.05'</p> |
|                    |                | <b>GRASS/TOPSOIL</b>                                    |                    | -           | 0.0       |   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine   |                    | -           | 0.0       |   |
| 2                  |                |   |                    | -           | 0.0       |   |
|                    |                |   |                    | -           | 0.0       |   |
| 4                  |                |   |                    | -           | 0.0       |   |
|                    |                |   |                    | -           | 0.0       |   |
| 6                  |                |   |                    | -           | 0.0       |   |
|                    |                |   |                    | -           | 0.0       |   |
| 8                  |                |   | SS-1<br>7.0 ~ 8.0' | -           | 0.3       |   |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Dark Gray, fine  |                    | -           | 0.7       |   |
| 10                 |                |   |                    | -           | 0.2       |   |
|                    |                |   |                    | -           | 0.0       |   |
| 12                 |                |   |                    | -           | 0.0       |   |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown/Gray, fine |                    | -           | 0.0       |   |
| 14                 |                |   |                    | -           | 0.0       |   |
|                    |                |   |                    | -           | 0.0       |   |
| 16                 |                |   |                    |             |           |   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted



# Well Log .

**Project No.:** 01-6124-1-001

**Well No.:** SB/TMW-7

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 12/8/2015

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** KL

**Sampling Method:** 2.125" MC

| SUBSURFACE PROFILE |                |   | SAMPLE         |             |           | Groundwater Well Completion Details |
|--------------------|----------------|---|----------------|-------------|-----------|-------------------------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                                | Sample # Depth | Blow Counts | PID (ppm) |                                     |
| 0                  |                | Ground Surface  |                |             |           |                                     |
| 0                  |                | <b>GRASS/TOPSOIL</b>                                    |                | -           | 0.0       |                                     |
| 0                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine   |                | -           | 0.0       |                                     |
| 2                  |                |   |                | -           | 0.0       |                                     |
| 4                  |                |   |                | -           | 0.0       |                                     |
| 6                  |                |   |                | -           | 0.0       |                                     |
| 8                  |                |   |                | -           | 0.0       |                                     |
| 8.0 ~ 9.0'         |                |   | SS-1           | -           | 0.0       |                                     |
| 10                 |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown/Gray, fine |                | -           | 0.0       |                                     |
| 12                 |                |   |                | -           | 0.0       |                                     |
| 14                 |                |   |                | -           | 0.0       |                                     |
| 16                 |                |   |                | -           | 0.0       |                                     |

**Completion Notes:** EOB @ 15' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted





# Well Log .

**Project No.:** 01-6124-1-001

**Well No.:** SB/TMW-8

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 12/8/2015

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** KL

**Sampling Method:** 2.125" MC

| SUBSURFACE PROFILE |                |   | SAMPLE             |             |           | Groundwater Well Completion Details  |
|--------------------|----------------|---|--------------------|-------------|-----------|--|
| Depth (ft.)        | Boring Profile | Description and Comments                              | Sample # Depth     | Blow Counts | PID (ppm) |  |
| 0                  |                | Ground Surface  |                    |             |           | <p>1" PVC Casing</p> <p>Ground Surface</p> <p>1" 10-Slot PVC Screen</p> <p>Approximate Water Level (11.04')</p> <p>9.79'</p> <p>14.79'</p> |
| 0                  |                | <b>GRASS/TOPSOIL</b>                                  |                    | -           | 0.0       |  |
| 0                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine | SS-1<br>1.0 ~ 2.0' | -           | 6.0       |  |
| 2                  |                |   |                    | -           | 1.3       |  |
| 2                  |                |   |                    | -           | 0.2       |  |
| 4                  |                |   |                    | -           | 0.1       |  |
| 4                  |                |   |                    | -           | 0.0       |  |
| 6                  |                |   |                    | -           | 0.0       |  |
| 6                  |                |   |                    | -           | 0.0       |  |
| 8                  |                |   |                    | -           | 0.0       |  |
| 8                  |                |   |                    | -           | 0.0       |  |
| 10                 |                | <b>SP- (Loose) SAND (moist)</b><br>Gray, fine         |                    | -           | 0.0       |  |
| 10                 |                |   |                    | -           | 0.5       |  |
| 12                 |                | <b>SP- (Loose) SAND (saturated)</b><br>Gray, fine     |                    | -           | 1.1       |  |
| 12                 |                |   |                    | -           | 0.0       |  |
| 14                 |                |   |                    | -           | 0.0       |  |
| 14                 |                |   |                    | -           | 0.0       |  |
| 16                 |                |   |                    | -           | 0.0       |  |

**Completion Notes:** EOB @ 15' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted



# Well Log .

**Project No.:** 01-6124-1-001

**Well No.:** SB/TMW-8R

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 3/1/2016

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** BTL

**Sampling Method:** GRAB/MC

| SUBSURFACE PROFILE |                |  | SAMPLE         |             |           | Groundwater Well Completion Details   |
|--------------------|----------------|--|----------------|-------------|-----------|---|
| Depth (ft.)        | Boring Profile | Description and Comments                                       | Sample # Depth | Blow Counts | PID (ppm) |   |
| 0                  |                | Ground Surface   |                |             |           | <p>1" PVC Casing</p> <p>1" 10-Slot PVC Screen</p> <p>Ground Surface</p> <p>7.50'</p> <p>Approximate Water Level (9.78')</p> <p>12.50'</p> |
| 0                  |                | <b>GRASS/TOP SOIL</b>  |                | -           | 0.0       |   |
| 0                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine                 |                | -           | 0.0       |   |
| 2                  |                |  |                | -           | 0.0       |   |
| 4                  |                |  |                | -           | 0.0       |   |
| 6                  |                |  |                | -           | 0.0       |   |
| 8                  |                |  |                | -           | 0.0       |   |
| 10                 |                | <b>SP- (Medium Dense) SAND (saturated)</b><br>Brown/Gray, fine |                | -           | 0.0       |   |
| 12                 |                |  |                | -           | 0.0       |   |
| 14                 |                |  |                | -           | 0.0       |   |
| 16                 |                |  |                | -           | 0.0       |   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted



# Well Log .

**Project No.:** 01-6124-1-001

**Well No.:** SB/TMW-9

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 12/8/2015

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** KL

**Sampling Method:** 2.125" MC

| SUBSURFACE PROFILE |                |  | SAMPLE             |             |           | Groundwater Well Completion Details   |
|--------------------|----------------|--|--------------------|-------------|-----------|---|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample # Depth     | Blow Counts | PID (ppm) |   |
| 0                  |                | Ground Surface   |                    |             |           | <p>1" PVC Casing</p> <p>Ground Surface</p> <p>8.07'</p> <p>Approximate Water Level (9.34')</p> <p>13.07'</p> <p>1" 10-Slot PVC Screen</p> |
| 0                  |                | <b>GRASS/TOPSOIL</b>   |                    | -           | 0.0       |   |
| 0                  |                | <b>SC- (Medium Dense) CLAYEY SAND (moist)</b><br>Dark Gray, fine | SS-1<br>1.0 ~ 2.0' | -           | 0.0       |   |
| 2                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine            |                    | -           | 0.0       |   |
| 4                  |                |  |                    | -           | 0.0       |   |
| 6                  |                |  |                    | -           | 0.0       |   |
| 8                  |                |  |                    | -           | 0.0       |   |
| 10                 |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, medium fine        |                    | -           | 0.0       |   |
| 12                 |                |  |                    | -           | 0.0       |   |
| 14                 |                |  |                    | -           | 0.0       |   |
| 16                 |                |  |                    | -           | 0.0       |   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted



# Well Log .

**Project No.:** 01-6124-1-001

**Well No.:** SB/TMW-10

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 12/8/2015

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** KL

**Sampling Method:** 2.125" MC

| SUBSURFACE PROFILE |                |   | SAMPLE             |             |           | Groundwater Well Completion Details   |
|--------------------|----------------|---|--------------------|-------------|-----------|---|
| Depth (ft.)        | Boring Profile | Description and Comments                                  | Sample # Depth     | Blow Counts | PID (ppm) |   |
| 0                  |                | Ground Surface  |                    |             |           | <p>1" PVC Casing</p> <p>Ground Surface</p> <p>6.96'</p> <p>Approximate Water Level (7.60')</p> <p>11.96'</p> <p>1" 10-Slot PVC Screen</p> |
|                    |                | <b>GRASS/GRAVEL</b>                                       |                    | -           | 0.0       |   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine     | SS-1<br>1.0 ~ 2.0' | -           | 0.0       |   |
| 2                  |                |   |                    | -           | 0.0       |   |
| 4                  |                |   |                    | -           | 0.0       |   |
| 6                  |                |   |                    | -           | 0.0       |   |
| 8                  |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, medium fine |                    | -           | 0.0       |   |
| 10                 |                |   |                    | -           | 0.0       |   |
| 12                 |                |   |                    | -           | 0.0       |   |
| 14                 |                |   |                    | -           | 0.0       |   |
| 16                 |                |   |                    | -           | 0.0       |   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted



# Well Log .

**Project No.:** 01-6124-1-001

**Well No.:** SB/TMW-11

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 12/8/2015

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** KL

**Sampling Method:** 2.125" MC

| SUBSURFACE PROFILE |                |  | SAMPLE             |             |           | Groundwater Well Completion Details |
|--------------------|----------------|--|--------------------|-------------|-----------|-------------------------------------|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample # Depth     | Blow Counts | PID (ppm) |                                     |
| 0                  |                | Ground Surface   |                    |             |           |                                     |
| 0                  |                | <b>GRASS/GRAVEL</b>  |                    | -           | 0.0       |                                     |
| 0                  |                | <b>SC- (Medium Dense) CLAYEY SAND (moist)</b><br>Dark Gray, fine | SS-1<br>1.0 ~ 2.0' | -           | 0.6       |                                     |
| 2                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine            |                    | -           | 0.0       |                                     |
| 4                  |                |  |                    | -           | 0.0       |                                     |
| 6                  |                |  |                    | -           | 0.0       |                                     |
| 8                  |                |  |                    | -           | 0.6       |                                     |
| 8                  |                |  |                    | -           | 10.3      |                                     |
| 10                 |                | <b>SP- (Loose) SAND (saturated)</b><br>Gray, fine                |                    | -           | 16.9      |                                     |
| 10                 |                |  |                    | -           | 132       |                                     |
| 10                 |                |  |                    | -           | 1,030     |                                     |
| 12                 |                |  |                    | -           | 1,692     |                                     |
| 12                 |                |  |                    | -           | 75.6      |                                     |
| 14                 |                |  |                    | -           | 21.7      |                                     |
| 14                 |                |  |                    | -           | 8.3       |                                     |
| 16                 |                |  |                    | -           | 2.4       |                                     |
| 16                 |                |  |                    | -           | 1.6       |                                     |
| 18                 |                |  |                    | -           | 0.9       |                                     |
| 18                 |                |  |                    | -           | 0.4       |                                     |
| 20                 |                |  |                    | -           | 0.3       |                                     |

**Completion Notes:** EOB @ 20' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted



# Well Log .

**Project No.:** 01-6124-1-001

**Well No.:** SB/TMW-12

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 12/7/2015

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** KL

**Sampling Method:** 2.125" MC

| SUBSURFACE PROFILE |                |  | SAMPLE             |             |           | Groundwater Well Completion Details   |
|--------------------|----------------|--|--------------------|-------------|-----------|---|
| Depth (ft.)        | Boring Profile | Description and Comments                                       | Sample # Depth     | Blow Counts | PID (ppm) |   |
| 0                  |                | Ground Surface   |                    |             |           | <p>1" PVC Casing</p> <p>1" 10-Slot PVC Screen</p> <p>Ground Surface</p> <p>Approximate Water Level (9.67')</p> <p>8.22'</p> <p>13.22'</p> |
| 0                  |                | <b>GRASS/GRAVEL</b>  |                    | -           | 0.0       |   |
| 0                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine          | SS-1<br>1.0 ~ 2.0' | -           | 0.0       |   |
| 2                  |                |  |                    | -           | 0.0       |   |
| 4                  |                |  |                    | -           | 0.0       |   |
| 6                  |                |  |                    | -           | 0.0       |   |
| 8                  |                |  |                    | -           | 0.0       |   |
| 10                 |                | <b>SP- (Loose) SAND (saturated)</b><br>Gray/Brown, medium fine |                    | -           | 0.0       |   |
| 12                 |                |  |                    | -           | 0.0       |   |
| 14                 |                |  |                    | -           | 0.0       |   |
| 16                 |                |  |                    | -           | 0.0       |   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted



# Well Log .

**Project No.:** 01-6124-1-001

**Well No.:** SB/TMW-13

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 12/7/2015

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** KL

**Sampling Method:** 2.125" MC

| SUBSURFACE PROFILE |                |   | SAMPLE             |             |           | Groundwater Well Completion Details  |
|--------------------|----------------|---|--------------------|-------------|-----------|--|
| Depth (ft.)        | Boring Profile | Description and Comments                                | Sample # Depth     | Blow Counts | PID (ppm) |  |
| 0                  |                | Ground Surface  |                    |             |           | <p>1" PVC Casing</p> <p>Ground Surface</p> <p>Approximate Water Level (10.32')</p> <p>9.28'</p> <p>1" 10-Slot PVC Screen</p> <p>14.28'</p> |
|                    |                | <b>GRASS/GRAVEL</b>                                     |                    | -           | 0.0       |  |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine   | SS-1<br>1.0 ~ 2.0' | -           | 0.0       |  |
| 2                  |                |   |                    | -           | 0.0       |  |
|                    |                |   |                    | -           | 0.0       |  |
| 4                  |                |   |                    | -           | 0.0       |  |
|                    |                |   |                    | -           | 0.0       |  |
| 6                  |                |   |                    | -           | 0.0       |  |
|                    |                |   |                    | -           | 0.0       |  |
| 8                  |                |   |                    | -           | 0.0       |  |
|                    |                |   |                    | -           | 0.0       |  |
| 10                 |                |   |                    | -           | 0.0       |  |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown/Gray, fine |                    | -           | 0.0       |  |
| 12                 |                |   |                    | -           | 0.0       |  |
|                    |                |   |                    | -           | 0.0       |  |
| 14                 |                |   |                    | -           | 0.0       |  |
|                    |                |   |                    | -           | 0.0       |  |
| 16                 |                |   |                    |             |           |  |

**Completion Notes:** EOB @ 15' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted



# Well Log .

**Project No.:** 01-6124-1-001

**Well No.:** SB/TMW-14

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 12/7/2015

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** KL

**Sampling Method:** 2.125" MC

| SUBSURFACE PROFILE |                |  | SAMPLE             |             |           | Groundwater Well Completion Details   |
|--------------------|----------------|--|--------------------|-------------|-----------|---|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample # Depth     | Blow Counts | PID (ppm) |   |
| 0                  |                | Ground Surface   |                    |             |           | <p>1" PVC Casing</p> <p>1" 10-Slot PVC Screen</p> <p>Ground Surface</p> <p>8.12'</p> <p>Approximate Water Level (9.36')</p> <p>13.12'</p> |
| 0                  |                | <b>GRASS/GRAVEL</b>  |                    | -           | 0.0       |   |
| 0                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine, trace concrete debris | SS-1<br>1.0 ~ 2.0' | -           | 0.0       |   |
| 2                  |                |  |                    | -           | 0.0       |   |
| 4                  |                |  |                    | -           | 0.0       |   |
| 6                  |                |  |                    | -           | 0.0       |   |
| 8                  |                |  |                    | -           | 0.0       |   |
| 10                 |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown/Gray, medium fine               |                    | -           | 0.0       |   |
| 12                 |                |  |                    | -           | 0.0       |   |
| 14                 |                |  |                    | -           | 0.0       |   |
| 16                 |                |  |                    | -           | 0.0       |   |
| 18                 |                |  |                    | -           | 0.0       |   |
| 20                 |                |  |                    | -           | 0.0       |   |

**Completion Notes:** EOB @ 20' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted





# Boring Log .

**Project No.:** 01-6124-1-001

**Boring No.:** SB-15

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 12/7/2015

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** KL

**Sampling Method:** 2.125" MC

| SUBSURFACE PROFILE |                |  | SAMPLE             |             |           |                   |
|--------------------|----------------|--|--------------------|-------------|-----------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample #<br>Depth  | Blow Counts | PID (ppm) | No Well Installed |
| 0                  |                | Ground Surface   |                    |             |           |                   |
| 0                  |                | <b>GRASS/GRAVEL</b>  |                    | -           | 0.0       |                   |
| 0                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine, trace brick and concrete debris     | SS-1<br>1.0 ~ 2.0' | -           | 0.0       |                   |
| 2                  |                |  |                    | -           | 0.0       |                   |
| 4                  |                |  |                    | -           | 0.0       |                   |
| 6                  |                |  |                    | -           | 0.0       |                   |
| 8                  |                |  |                    | -           | 0.0       |                   |
| 10                 |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, medium fine, trace brick and concrete debris |                    | -           | 0.0       |                   |
| 12                 |                | <b>SP- (Loose) SAND (saturated)</b><br>Gray, medium fine                                   |                    | -           | 0.0       |                   |
| 14                 |                |  |                    | -           | 0.0       |                   |
| 16                 |                |  |                    | -           | 0.0       |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Well Log .

**Project No.:** 01-6124-1-001

**Well No.:** SB/TMW-16

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 12/7/2015

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** KL

**Sampling Method:** 2.125" MC

| SUBSURFACE PROFILE |                |  | SAMPLE             |             |           | Groundwater Well Completion Details   |
|--------------------|----------------|--|--------------------|-------------|-----------|---|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample # Depth     | Blow Counts | PID (ppm) |   |
| 0                  |                | Ground Surface   |                    |             |           | <p>1" PVC Casing</p> <p>Ground Surface</p> <p>8.86'</p> <p>Approximate Water Level (9.71')</p> <p>13.86'</p> <p>1" 10-Slot PVC Screen</p> |
|                    |                | <b>GRASS/GRAVEL</b>  |                    | -           | 0.0       |   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine, trace gravel and brick debris | SS-1<br>1.0 ~ 2.0' | -           | 0.0       |   |
| 2                  |                |  |                    | -           | 0.0       |   |
| 4                  |                |  |                    | -           | 0.0       |   |
| 6                  |                |  |                    | -           | 0.0       |   |
| 8                  |                |  |                    | -           | 0.0       |   |
| 10                 |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown/Gray, medium fine                       |                    | -           | 0.0       |   |
| 12                 |                |  |                    | -           | 0.0       |   |
| 14                 |                |  |                    | -           | 0.0       |   |
| 16                 |                |  |                    | -           | 0.0       |   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted



# Boring Log .

**Project No.:** 01-6124-1-001

**Boring No.:** SB-17

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 12/7/2015

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** KL

**Sampling Method:** 2.125" MC

| SUBSURFACE PROFILE |                |   | SAMPLE             |             |           |                   |
|--------------------|----------------|---|--------------------|-------------|-----------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments  | Sample #<br>Depth  | Blow Counts | PID (ppm) | No Well Installed |
| 0                  |                | Ground Surface  |                    |             |           |                   |
|                    |                | <b>GRASS/GRAVEL</b>   |                    | -           | 0.0       |                   |
|                    |                | <b>GW- (Loose) GRAVELLY SAND (moist)</b><br>Brown, medium fine, with brick debris                   | SS-1<br>1.0 ~ 2.0' | -           | 0.0       |                   |
| 2                  |                |   |                    | -           | 0.0       |                   |
|                    |                |   |                    | -           | 0.0       |                   |
| 4                  |                |   |                    | -           | 0.0       |                   |
|                    |                |   |                    | -           | 0.0       |                   |
| 6                  |                |   |                    | -           | 0.0       |                   |
|                    |                |   |                    | -           | 0.0       |                   |
| 8                  |                |   |                    | -           | 0.0       |                   |
|                    |                |   |                    | -           | 0.0       |                   |
| 10                 |                | <b>GW- (Loose) GRAVELLY SAND (saturated)</b><br>Brown, medium fine, trace brick and concrete debris |                    | -           | 0.0       |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown/Gray, medium fine  |                    | -           | 0.0       |                   |
| 12                 |                |   |                    | -           | 0.0       |                   |
|                    |                |   |                    | -           | 0.0       |                   |
| 14                 |                |   |                    | -           | 0.0       |                   |
|                    |                |   |                    | -           | 0.0       |                   |
| 16                 |                |   |                    |             |           |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Well Log .

**Project No.:** 01-6124-1-001

**Well No.:** SB/TMW-18

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 12/7/2015

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** KL

**Sampling Method:** 2.125" MC

| SUBSURFACE PROFILE |                |   | SAMPLE         |             |           | Groundwater Well Completion Details  |
|--------------------|----------------|---|----------------|-------------|-----------|--|
| Depth (ft.)        | Boring Profile | Description and Comments  | Sample # Depth | Blow Counts | PID (ppm) |  |
| 0                  |                | Ground Surface  |                |             |           | <p>1" PVC Casing</p> <p>Ground Surface</p> <p>9.09'</p> <p>Approximate Water Level (10.50')</p> <p>14.09'</p> <p>1" 10-Slot PVC Screen</p> |
| 0 - 1              |                | <b>GRASS/GRAVEL</b>   |                | -           | 0.0       |  |
| 1 - 6              |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine, trace gravel                             |                | -           | 0.0       |  |
| 2                  |                |   |                | -           | 0.0       |  |
| 3                  |                |   |                | -           | 0.0       |  |
| 4                  |                |   |                | -           | 0.0       |  |
| 5                  |                |   |                | -           | 0.0       |  |
| 6                  |                | <b>GW- (Loose) GRAVELLY SAND (moist)</b><br>Gray, medium coarse, with brick and concrete debris |                | -           | 0.2       |  |
| 7.0 - 8.0          |                |   | SS-1           | -           | 1.1       |  |
| 8                  |                |   |                | -           | 0.8       |  |
| 9                  |                |   |                | -           | 0.4       |  |
| 10                 |                |   |                | -           | 0.0       |  |
| 11                 |                |   |                | -           | 0.0       |  |
| 12                 |                |   |                | -           | 0.0       |  |
| 13                 |                |   |                | -           | 0.0       |  |
| 14                 |                |   |                | -           | 0.0       |  |
| 15                 |                |   |                | -           | 0.0       |  |
| 16                 |                |   |                |             |           |  |

**Completion Notes:** EOB @ 15' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted



# Well Log .

**Project No.:** 01-6124-1-001

**Well No.:** SB/TMW-19

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 12/7/2015

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** KL

**Sampling Method:** 2.125" MC

| SUBSURFACE PROFILE |                |   | SAMPLE             |             |           | Groundwater Well Completion Details   |
|--------------------|----------------|---|--------------------|-------------|-----------|---|
| Depth (ft.)        | Boring Profile | Description and Comments                                  | Sample # Depth     | Blow Counts | PID (ppm) |   |
| 0                  |                | Ground Surface  |                    |             |           | <p>1" PVC Casing</p> <p>Ground Surface</p> <p>8.26'</p> <p>1" 10-Slot PVC Screen</p> <p>Approximate Water Level (9.94')</p> <p>13.26'</p> |
| 0                  |                | <b>GRASS/GRAVEL</b>                                       |                    | -           | 0.0       |   |
| 0                  |                | <b>SP- (Loose) Sand (moist)</b><br>Brown, medium fine     | SS-1<br>1.0 ~ 2.0' | -           | 0.0       |   |
| 2                  |                |   |                    | -           | 0.0       |   |
| 4                  |                |   |                    | -           | 0.0       |   |
| 6                  |                |   |                    | -           | 0.0       |   |
| 8                  |                | <b>SP- (Loose) SAND (moist)</b><br>Light Brown/Gray, fine |                    | -           | 0.0       |   |
| 10                 |                | <b>SP- (Loose) SAND (saturated)</b><br>Gray, fine         |                    | -           | 0.0       |   |
| 12                 |                |   |                    | -           | 0.0       |   |
| 14                 |                |   |                    | -           | 0.0       |   |
| 16                 |                |   |                    | -           | 0.0       |   |
| 18                 |                |   |                    | -           | 0.0       |   |
| 20                 |                |   |                    | -           | 0.0       |   |

**Completion Notes:** EOB @ 20' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted



# Well Log .

**Project No.:** 01-6124-1-001

**Well No.:** SB/TMW-20

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 12/7/2015

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** KL

**Sampling Method:** 2.125" MC

| SUBSURFACE PROFILE |                |   | SAMPLE             |             |           | Groundwater Well Completion Details |
|--------------------|----------------|---|--------------------|-------------|-----------|-------------------------------------|
| Depth (ft.)        | Boring Profile | Description and Comments  | Sample # Depth     | Blow Counts | PID (ppm) |                                     |
| 0                  |                | Ground Surface  |                    |             |           |                                     |
|                    |                | <b>GRASS/GRAVEL</b>   |                    | -           | 0.0       |                                     |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine, trace gravel | SS-1<br>1.0 ~ 2.0' | -           | 0.0       |                                     |
| 2                  |                |   |                    | -           | 0.0       |                                     |
|                    |                |   |                    | -           | 0.0       |                                     |
| 4                  |                |   |                    | -           | 0.0       |                                     |
|                    |                |   |                    | -           | 0.0       |                                     |
| 6                  |                |   |                    | -           | 0.0       |                                     |
|                    |                |   |                    | -           | 0.0       |                                     |
| 8                  |                |   |                    | -           | 0.0       |                                     |
|                    |                |   |                    | -           | 0.0       |                                     |
| 10                 |                | <b>SP- (Loose) SAND (moist)</b><br>Light Brown/Gray, fine           |                    | -           | 0.0       |                                     |
|                    |                |   |                    | -           | 0.0       |                                     |
| 12                 |                |   |                    | -           | 0.0       |                                     |
|                    |                |   |                    | -           | 0.0       |                                     |
| 14                 |                | <b>SP- (Loose) SAND (saturated)</b><br>Light Brown/Gray, fine       |                    | -           | 0.0       |                                     |
| 16                 |                |   |                    | -           | 0.0       |                                     |

**Completion Notes:** EOB @ 15' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted



# Boring Log .

**Project No.:** 01-6124-1-001

**Boring No.:** SB-21

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 12/8/2015

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** KL

**Sampling Method:** 2.125" MC

| SUBSURFACE PROFILE |                |  | SAMPLE             |             |           |                   |
|--------------------|----------------|--|--------------------|-------------|-----------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample #<br>Depth  | Blow Counts | PID (ppm) | No Well Installed |
| 0                  |                | Ground Surface   |                    |             |           |                   |
|                    |                | <b>GRASS/TOPSOIL</b>   |                    | -           | 0.0       |                   |
|                    |                | <b>CL- (Medium Stiff) CLAY (moist)</b><br>Brown/Gray, trace gravel |                    | -           | 0.0       |                   |
| 2                  |                |  |                    | -           | 0.0       |                   |
|                    |                |  |                    | -           | 0.0       |                   |
| 4                  |                |  |                    | -           | 0.0       |                   |
|                    |                |  |                    | -           | 0.0       |                   |
| 6                  |                |  |                    | -           | 0.0       |                   |
|                    |                |  |                    | -           | 0.0       |                   |
| 8                  |                | <b>CL- (Medium Soft) SANDY CLAY (moist)</b><br>Gray                | SS-1<br>8.0 ~ 9.0' | -           | 0.0       |                   |
|                    |                |  |                    | -           | 0.0       |                   |
| 10                 |                |  |                    | -           | 0.0       |                   |
|                    |                |  |                    | -           | 0.0       |                   |
| 12                 |                |  |                    | -           | 0.0       |                   |
|                    |                |  |                    | -           | 0.0       |                   |
| 14                 |                |  |                    | -           | 0.0       |                   |
|                    |                |  |                    | -           | 0.0       |                   |
| 16                 |                |  |                    |             |           |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Well Log .

**Project No.:** 01-6124-1-001

**Well No.:** SB/TMW-22

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 3/1/2016

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** BTL

**Sampling Method:** GRAB/MC

| SUBSURFACE PROFILE |                |   | SAMPLE             |             |           | Groundwater Well Completion Details   |
|--------------------|----------------|---|--------------------|-------------|-----------|---|
| Depth (ft.)        | Boring Profile | Description and Comments  | Sample # Depth     | Blow Counts | PID (ppm) |   |
| 0                  |                | Ground Surface  |                    |             |           | <p>1" PVC Casing</p> <p>Ground Surface</p> <p>7.25'</p> <p>Approximate Water Level (8.68')</p> <p>12.25'</p> <p>1" 10-Slot PVC Screen</p> |
| 0                  |                | <b>GRASS/TOP SOIL</b>   |                    | -           | 0.0       |   |
| 0                  |                | <b>SC- (Medium Dense) CLAYEY SAND (moist)</b><br>Brown, trace gravel and debris |                    | -           | 0.0       |   |
| 2                  |                |   |                    | -           | 0.0       |   |
| 4                  |                |   | SS-1<br>3.0 - 4.0' | -           | 0.0       |   |
| 4                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine                                  |                    | -           | 0.0       |   |
| 6                  |                |   |                    | -           | 0.0       |   |
| 8                  |                |   |                    | -           | 0.0       |   |
| 10                 |                | <b>SP- (Dense) SAND (saturated)</b><br>Brown, fine                              |                    | -           | 0.0       |   |
| 12                 |                |   |                    | -           | 0.0       |   |
| 14                 |                |   |                    | -           | 0.0       |   |
| 16                 |                |   |                    | -           | 0.0       |   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted





# Well Log .

**Project No.:** 01-6124-1-001

**Well No.:** SB/TMW-23

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 3/1/2016

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** BTL

**Sampling Method:** GRAB/MC

| SUBSURFACE PROFILE |                |   | SAMPLE             |             |           | Groundwater Well Completion Details   |
|--------------------|----------------|---|--------------------|-------------|-----------|---|
| Depth (ft.)        | Boring Profile | Description and Comments  | Sample # Depth     | Blow Counts | PID (ppm) |   |
| 0                  |                | Ground Surface  |                    |             |           | <p>1" PVC Casing</p> <p>Ground Surface</p> <p>7.60'</p> <p>Approximate Water Level (7.98')</p> <p>12.60'</p> <p>1" 10-Slot PVC Screen</p> |
|                    |                | <b>GRASS/TOP SOIL</b>   |                    | -           | 0.0       |   |
|                    |                | <b>CL- (Medium) CLAY (moist)</b><br>Brown                         |                    | -           | 0.0       |   |
| 2                  |                |   |                    | -           | 0.0       |   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine, with brick debris |                    | -           | 0.0       |   |
| 4                  |                |   | SS-1<br>4.0 - 5.0' | -           | 0.0       |   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine                    |                    | -           | 0.0       |   |
| 6                  |                |   |                    | -           | 0.0       |   |
|                    |                |   |                    | -           | 0.0       |   |
| 8                  |                |   |                    | -           | 0.0       |   |
|                    |                | <b>SP- (Dense) SAND (saturated)</b><br>Brown, fine                |                    | -           | 0.0       |   |
| 10                 |                |   |                    | -           | 0.0       |   |
|                    |                |   |                    | -           | 0.0       |   |
| 12                 |                |   |                    | -           | 0.0       |   |
|                    |                |   |                    | -           | 0.0       |   |
| 14                 |                |   |                    | -           | 0.0       |   |
|                    |                |   |                    | -           | 0.0       |   |
| 16                 |                |   |                    |             |           |   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted



# Well Log .

**Project No.:** 01-6124-1-001

**Well No.:** SB/TMW-24

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 3/1/2016

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** BTL

**Sampling Method:** GRAB/MC

| SUBSURFACE PROFILE |                |   | SAMPLE             |             |           | Groundwater Well Completion Details   |
|--------------------|----------------|---|--------------------|-------------|-----------|---|
| Depth (ft.)        | Boring Profile | Description and Comments                                  | Sample # Depth     | Blow Counts | PID (ppm) |   |
| 0                  |                | Ground Surface  |                    |             |           | <p>1" PVC Casing</p> <p>Ground Surface</p> <p>7.44'</p> <p>Approximate Water Level (8.64')</p> <p>12.44'</p> <p>1" 10-Slot PVC Screen</p> |
|                    |                | <b>GRASS/TOP SOIL</b>                                     |                    | -           | 0.0       |   |
|                    |                | <b>GRAVEL</b>   |                    | -           | 0.0       |   |
| 2                  |                | <b>SP- (Loose) SAND (moist)</b><br>Dark Brown/Black, fine |                    | -           | 0.0       |   |
| 4                  |                |   | SS-1<br>3.0 - 4.0' | -           | 0.0       |   |
| 4                  |                | <b>SP- (Loose) SAND (moist)</b><br>Light Brown, fine      |                    | -           | 0.0       |   |
| 6                  |                |   |                    | -           | 0.0       |   |
| 8                  |                |   |                    | -           | 0.0       |   |
| 10                 |                | <b>SP- (Dense) SAND (saturated)</b><br>Brown, fine        |                    | -           | 0.0       |   |
| 12                 |                |   |                    | -           | 0.0       |   |
| 14                 |                |   |                    | -           | 0.0       |   |
| 16                 |                |   |                    | -           | 0.0       |   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with bentonite and soil cuttings.

1. The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
2. Boring backfilled with natural soils unless otherwise noted



# Well Log .

**Project No.:** 01-6124-1-001

**Well No.:** SB/TMW-25

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 3/1/2016

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** BTL

**Sampling Method:** GRAB/MC

| SUBSURFACE PROFILE |                |  | SAMPLE         |             |           | Groundwater Well Completion Details  |
|--------------------|----------------|--|----------------|-------------|-----------|--|
| Depth (ft.)        | Boring Profile | Description and Comments                                       | Sample # Depth | Blow Counts | PID (ppm) |  |
| 0                  |                | Ground Surface   |                |             |           | <p>1" PVC Casing</p> <p>1" 10-Slot PVC Screen</p> <p>Ground Surface</p> <p>4.57'</p> <p>Approximate Water Level (5.75')</p> <p>9.57'</p> |
| 0                  |                | <b>GRASS/TOP SOIL</b>  |                | -           | 0.0       |  |
| 0                  |                | <b>GP- (Loose) SAND</b><br>Brown/Black, with gravel and debris |                | -           | 0.0       |  |
| 2                  |                |  |                | -           | 0.0       |  |
| 4                  |                |  |                | -           | 0.0       |  |
| 4.0 - 5.0'         |                |  | SS-1           | -           | 0.0       |  |
| 6                  |                | <b>SP- (Medium Dense) SAND (saturated)</b><br>Brown/Gray, fine |                | -           | 0.0       |  |
| 6                  |                |  |                | -           | 0.0       |  |
| 8                  |                |  |                | -           | 0.0       |  |
| 8                  |                |  |                | -           | 0.4       |  |
| 10                 |                |  |                | -           | 0.6       |  |
| 10                 |                |  |                | -           | 1.1       |  |
| 12                 |                |  |                | -           | 0.7       |  |
| 12                 |                |  |                | -           | 0.2       |  |
| 14                 |                |  |                | -           | 0.0       |  |
| 14                 |                |  |                | -           | 0.0       |  |
| 16                 |                |  |                |             |           |  |

**Completion Notes:** EOB @ 15' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted



# Well Log .

**Project No.:** 01-6124-1-001

**Well No.:** SB/TMW-26

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 3/1/2016

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** BTL

**Sampling Method:** GRAB/MC

| SUBSURFACE PROFILE |                |  | SAMPLE             |             |           | Groundwater Well Completion Details  |
|--------------------|----------------|--|--------------------|-------------|-----------|--|
| Depth (ft.)        | Boring Profile | Description and Comments                           | Sample # Depth     | Blow Counts | PID (ppm) |  |
| 0                  |                | Ground Surface                                     |                    |             |           | <p>1" PVC Casing</p> <p>1" 10-Slot PVC Screen</p> <p>Ground Surface</p> <p>8.50'</p> <p>Approximate Water Level (10.22')</p> <p>13.50'</p> |
| 0                  |                | <b>GRASS/TOP SOIL</b>                              |                    | -           | 0.0       |  |
| 0                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine     |                    | -           | 0.0       |  |
| 2                  |                |  | SS-1<br>2.0 - 3.0' | -           | 0.0       |  |
| 4                  |                |  |                    | -           | 0.0       |  |
| 4                  |                |  |                    | -           | 0.0       |  |
| 6                  |                |  |                    | -           | 0.0       |  |
| 6                  |                |  |                    | -           | 0.0       |  |
| 8                  |                |  |                    | -           | 0.0       |  |
| 8                  |                |  |                    | -           | 0.0       |  |
| 10                 |                | <b>SP- (Dense) SAND (saturated)</b><br>Brown, fine |                    | -           | 0.0       |  |
| 10                 |                |  |                    | -           | 0.0       |  |
| 12                 |                |  |                    | -           | 0.0       |  |
| 12                 |                |  |                    | -           | 0.0       |  |
| 14                 |                |  |                    | -           | 0.0       |  |
| 14                 |                |  |                    | -           | 0.0       |  |
| 16                 |                |  |                    |             |           |  |

**Completion Notes:** EOB @ 15' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted



# Well Log .

**Project No.:** 01-6124-1-001

**Well No.:** SB/TMW-27

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 3/1/2016

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** BTL

**Sampling Method:** GRAB/MC

| SUBSURFACE PROFILE |                |  | SAMPLE             |             |           | Groundwater Well Completion Details   |
|--------------------|----------------|--|--------------------|-------------|-----------|---|
| Depth (ft.)        | Boring Profile | Description and Comments                                     | Sample # Depth     | Blow Counts | PID (ppm) |   |
| 0                  |                | Ground Surface   |                    |             |           | <p>1" PVC Casing</p> <p>Ground Surface</p> <p>6.20'</p> <p>1" 10-Slot PVC Screen</p> <p>Approximate Water Level (7.24')</p> <p>11.20'</p> |
| 0                  |                | <b>GRASS/TOP SOIL</b>  |                    | -           | 0.0       |   |
| 0                  |                | <b>CL- (Medium) CLAY (moist)</b><br>Brown                    |                    | -           | 0.0       |   |
| 2                  |                |  |                    | -           | 0.0       |   |
| 4                  |                | <b>CL- (Medium) CLAY (moist)</b><br>Brown, with brick debris | SS-1<br>4.0 - 5.0' | -           | 0.0       |   |
| 6                  |                | <b>CL- (Medium Soft) CLAY (moist)</b><br>Brown               |                    | -           | 0.0       |   |
| 8                  |                |  |                    | -           | 0.0       |   |
| 10                 |                | <b>SP- (Dense) SAND (saturated)</b><br>Gray/Black, fine      |                    | -           | 0.0       |   |
| 12                 |                |  |                    | -           | 0.0       |   |
| 14                 |                |  |                    | -           | 0.0       |   |
| 16                 |                |  |                    | -           | 0.0       |   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted



# Boring Log .

**Project No.:** 01-6124-1-001

**Boring No.:** SB-28

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 3/1/2016

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** KL

**Sampling Method:** GRAB/MC

| SUBSURFACE PROFILE |                |   | SAMPLE               |             |           |                   |
|--------------------|----------------|---|----------------------|-------------|-----------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                                      | Sample #<br>Depth    | Blow Counts | PID (ppm) | No Well Installed |
| 0                  |                | Ground Surface  |                      |             |           |                   |
|                    |                | <b>GRASS/TOPSOIL</b>  |                      |             | 0.0       |                   |
|                    |                | <b>CL- (Medium) CLAY (moist)</b><br>Brown, trace brick debris |                      | -           | 0.0       |                   |
| 2                  |                |   |                      | -           | 0.0       |                   |
|                    |                |   | SS-1<br>3.0 - 4.0'   | -           | 0.0       |                   |
| 4                  |                |   |                      | -           | 0.0       |                   |
|                    |                | <b>CL- (Medium) CLAY (moist)</b><br>Brown/Gray                |                      | -           | 0.0       |                   |
| 6                  |                |   |                      | -           | 0.0       |                   |
|                    |                |   |                      | -           | 0.0       |                   |
| 8                  |                |   |                      | -           | 0.0       |                   |
|                    |                |   |                      | -           | 0.0       |                   |
| 10                 |                |   |                      | -           | 0.0       |                   |
|                    |                |   |                      | -           | 0.0       |                   |
| 12                 |                |   |                      | -           | 0.0       |                   |
|                    |                |   |                      | -           | 0.0       |                   |
| 14                 |                |   | SS-2<br>14.0 - 15.0' | -           | 0.0       |                   |
| 16                 |                |   |                      |             |           |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-1-001

**Boring No.:** SB-29

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 3/1/2016

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** KL

**Sampling Method:** GRAB/MC

| SUBSURFACE PROFILE |                |  | SAMPLE               |             |           |                   |
|--------------------|----------------|--|----------------------|-------------|-----------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                               | Sample #<br>Depth    | Blow Counts | PID (ppm) | No Well Installed |
| 0                  |                | Ground Surface   |                      |             |           |                   |
|                    |                | <b>GRASS/TOPSOIL</b>                                   |                      | -           | 0.0       |                   |
|                    |                | <b>CL- (Medium) CLAY (moist)</b><br>Brown              | SS-1<br>1.0 - 2.0'   | -           | 0.0       |                   |
| 2                  |                |  |                      | -           | 0.0       |                   |
|                    |                |  |                      | -           | 0.0       |                   |
| 4                  |                |  |                      | -           | 0.0       |                   |
|                    |                | <b>CL- (Medium) CLAY (moist)</b><br>Gray, trace gravel |                      | -           | 0.0       |                   |
| 6                  |                |  |                      | -           | 0.0       |                   |
|                    |                |  |                      | -           | 0.0       |                   |
| 8                  |                |  |                      | -           | 0.0       |                   |
|                    |                |  |                      | -           | 0.0       |                   |
| 10                 |                |  |                      | -           | 0.0       |                   |
|                    |                |  |                      | -           | 0.0       |                   |
| 12                 |                |  |                      | -           | 0.0       |                   |
|                    |                |  |                      | -           | 0.0       |                   |
| 14                 |                |  | SS-2<br>14.0 - 15.0' | -           | 0.0       |                   |
| 16                 |                |  |                      |             |           |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Well Log .

**Project No.:** 01-6124-1-001

**Well No.:** SB/TMW-30

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 3/1/2016

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** BTL

**Sampling Method:** GRAB/MC

| SUBSURFACE PROFILE |                |  | SAMPLE         |             |           | Groundwater Well Completion Details  |
|--------------------|----------------|--|----------------|-------------|-----------|--|
| Depth (ft.)        | Boring Profile | Description and Comments                                       | Sample # Depth | Blow Counts | PID (ppm) |  |
| 0                  |                | Ground Surface   |                |             |           | <p>1" PVC Casing</p> <p>1" 10-Slot PVC Screen</p> <p>Ground Surface</p> <p>9.15'</p> <p>Approximate Water Level (11.06')</p> <p>14.15'</p> |
| 0                  |                | <b>GRASS/TOP SOIL</b>  |                | -           | 0.0       |  |
| 0                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine                 |                | -           | 0.0       |  |
| 2                  |                |  |                | -           | 0.0       |  |
| 4                  |                |  |                | -           | 0.0       |  |
| 6                  |                |  |                | -           | 0.0       |  |
| 8                  |                |  |                | -           | 0.0       |  |
| 8.0 - 9.0'         |                |  | SS-1           | -           | 0.0       |  |
| 10                 |                | <b>SP- (Medium Dense) SAND (saturated)</b><br>Brown/Gray, fine |                | -           | 0.0       |  |
| 12                 |                |  |                | -           | 0.0       |  |
| 14                 |                |  |                | -           | 0.0       |  |
| 16                 |                |  |                | -           | 0.0       |  |

**Completion Notes:** EOB @ 15' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted





# Well Log .

**Project No.:** 01-6124-1-001

**Well No.:** SB/TMW-31

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 3/1/2016

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** BTL

**Sampling Method:** GRAB/MC

| SUBSURFACE PROFILE |                |  | SAMPLE             |             |           | Groundwater Well Completion Details  |
|--------------------|----------------|--|--------------------|-------------|-----------|--|
| Depth (ft.)        | Boring Profile | Description and Comments                                       | Sample # Depth     | Blow Counts | PID (ppm) |  |
| 0                  |                | Ground Surface   |                    |             |           | <p>1" PVC Casing</p> <p>1" 10-Slot PVC Screen</p> <p>Ground Surface</p> <p>8.77'</p> <p>Approximate Water Level (10.76')</p> <p>13.77'</p> |
|                    |                | <b>GRASS/TOP SOIL</b>  |                    | -           | 0.0       |  |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine                 |                    | -           | 0.0       |  |
| 2                  |                |  |                    | -           | 0.0       |  |
|                    |                |  |                    | -           | 0.0       |  |
| 4                  |                |  |                    | -           | 0.0       |  |
|                    |                |  |                    | -           | 0.0       |  |
| 6                  |                |  |                    | -           | 0.0       |  |
|                    |                |  |                    | -           | 0.0       |  |
| 8                  |                |  | SS-1<br>7.0 - 8.0' | -           | 0.0       |  |
|                    |                |  |                    | -           | 0.0       |  |
| 10                 |                | <b>SP- (Medium Dense) SAND (saturated)</b><br>Brown/Gray, fine |                    | -           | 0.0       |  |
|                    |                |  |                    | -           | 0.0       |  |
| 12                 |                |  |                    | -           | 0.0       |  |
|                    |                |  |                    | -           | 0.0       |  |
| 14                 |                |  |                    | -           | 0.0       |  |
|                    |                |  |                    | -           | 0.0       |  |
| 16                 |                |  |                    |             |           |  |

**Completion Notes:** EOB @ 15' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted



# Well Log .

**Project No.:** 01-6124-1-001

**Well No.:** SB/TMW-32

**Project Name:** COMMERCIAL PROPERTY

**Date Drilled:** 3/1/2016

**Facility ID#:**

**Drill Rig:** 6712-DT

**Logged By:** BTL

**Sampling Method:** GRAB/MC

| SUBSURFACE PROFILE |                |   | SAMPLE         |             |           | Groundwater Well Completion Details  |
|--------------------|----------------|---|----------------|-------------|-----------|--|
| Depth (ft.)        | Boring Profile | Description and Comments                                  | Sample # Depth | Blow Counts | PID (ppm) |  |
| 0                  |                | Ground Surface  |                |             |           | <p>1" PVC Casing</p> <p>Ground Surface</p> <p>8.59'</p> <p>1" 10-Slot PVC Screen</p> <p>Approximate Water Level (10.88')</p> <p>13.59'</p> |
| 0                  |                | <b>GRASS/TOP SOIL</b>                                     |                | -           | 0.0       |  |
| 0                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine            |                | -           | 0.0       |  |
| 2                  |                |   |                | -           | 0.0       |  |
| 4                  |                |   |                | -           | 0.0       |  |
| 6                  |                |   |                | -           | 0.0       |  |
| 8                  |                |   |                | -           | 0.0       |  |
| 8.0 - 9.0'         |                |   | SS-1           | -           | 0.0       |  |
| 10                 |                | <b>SP- (Medium Dense) SAND (saturated)</b><br>Brown, fine |                | -           | 0.2       |  |
| 12                 |                | <b>SP- (Medium Dense) SAND (saturated)</b><br>Black, fine |                | -           | 8.9       |  |
| 14                 |                | <b>SP- (Medium Dense) SAND (saturated)</b><br>Gray, fine  |                | -           | 10.4      |  |
| 16                 |                |   |                | -           | 0.3       |  |
| 18                 |                |   |                | -           | 0.2       |  |
| 20                 |                |   |                | -           | 0.1       |  |
|                    |                |   |                | -           | 0.0       |  |
|                    |                |   |                | -           | 0.0       |  |
|                    |                |   |                | -           | 0.0       |  |
|                    |                |   |                | -           | 0.0       |  |
|                    |                |   |                | -           | 0.0       |  |
|                    |                |   |                | -           | 0.0       |  |

**Completion Notes:** EOB @ 20' bgs. Hole filled with bentonite and soil cuttings.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-101  
**Date Drilled:** 6/22/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE             |             |           |                   |
|--------------------|----------------|---|--------------------|-------------|-----------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments  | Sample #<br>Depth  | Blow Counts | PID (ppm) | No Well Installed |
| 0                  |                | Ground Surface  |                    |             |           |                   |
|                    |                | <b>GRASS / TOP SOIL</b>   |                    |             |           |                   |
|                    |                | <b>SC- (Dense) CLAYEY SAND (moist)</b><br>Brown, fine               |                    | -           | 0.0       |                   |
| 2                  |                |   |                    | -           | 0.0       |                   |
|                    |                |   |                    | -           | 0.0       |                   |
|                    |                |   | SS-1<br>3.0 - 4.0' | -           | 0.0       |                   |
| 4                  |                | <b>CL- (Medium Stiff) SANDY CLAY (moist)</b><br>Brown, trace gravel |                    | -           | 0.0       |                   |
|                    |                |   |                    | -           | 0.0       |                   |
| 6                  |                |   |                    | -           | 0.0       |                   |
|                    |                | <b>BRICK DEBRIS</b>   |                    | -           | 0.0       |                   |
|                    |                | <b>CL- (Medium Soft) SANDY CLAY (moist)</b><br>Dark Gray            | SS-2<br>8.0 - 9.0' | -           | 0.0       |                   |
| 8                  |                |   |                    | -           | 0.0       |                   |
|                    |                | <b>CONCRETE DEBRIS</b>  |                    | -           | 0.0       |                   |
|                    |                | <b>CL- (Medium Stiff) SANDY CLAY (moist)</b><br>Gray                |                    | -           | 0.0       |                   |
| 10                 |                |   |                    | -           | 0.0       |                   |
|                    |                |   |                    | -           | 0.0       |                   |
| 12                 |                |   |                    | -           | 0.0       |                   |
|                    |                |   |                    | -           | 0.0       |                   |
| 14                 |                |   |                    | -           | 0.0       |                   |
|                    |                |   |                    | -           | 0.0       |                   |
| 16                 |                |   |                    |             |           |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-102  
**Date Drilled:** 6/22/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE            |             | No Well Installed |
|--------------------|----------------|--|-------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample #<br>Depth | Blow Counts |                   |
| 0                  |                | Ground Surface   |                   |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>  |                   |             |                   |
|                    |                | <b>SC- (Dense) CLAYEY SAND (moist)</b><br>Brown, trace gravel and brick debris |                   | -           | 0.0               |
| 2                  |                |  |                   | -           | 0.0               |
|                    |                |  | SS-1              | -           | 0.0               |
|                    |                |  | 2.5 - 3.5'        | -           | 0.0               |
| 4                  |                | <b>CONCRETE DEBRIS</b>   |                   | -           | 0.0               |
|                    |                | <b>CL- (Medium Soft) SANDY CLAY (moist)</b><br>Brown                           |                   | -           | 0.0               |
| 6                  |                |  |                   | -           | 0.0               |
|                    |                |  |                   | -           | 0.0               |
| 8                  |                |  |                   | -           | 0.0               |
|                    |                |  | SS-2              | -           | 0.0               |
|                    |                | <b>CL- (Stiff) CLAY (moist)</b><br>Gray, trace gravel                          | 8.0 - 9.0'        | -           | 0.0               |
| 10                 |                |  |                   | -           | 0.0               |
|                    |                |  |                   | -           | 0.0               |
| 12                 |                |  |                   | -           | 0.0               |
|                    |                |  |                   | -           | 0.0               |
| 14                 |                |  |                   | -           | 0.0               |
|                    |                |  |                   | -           | 0.0               |
| 16                 |                |  |                   |             |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-103  
**Date Drilled:** 6/22/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE               |             |           |                   |
|--------------------|----------------|--|----------------------|-------------|-----------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample #<br>Depth    | Blow Counts | PID (ppm) | No Well Installed |
| 0                  |                | Ground Surface   |                      |             |           |                   |
|                    |                | <b>GRASS / TOP SOIL</b>  |                      |             |           |                   |
|                    |                | <b>SC- (Dense) CLAYEY SAND (moist)</b><br>Brown                                      |                      | -           | 0.0       |                   |
| 2                  |                |  |                      | -           | 0.0       |                   |
|                    |                |  |                      | -           | 0.0       |                   |
| 4                  |                | <b>CL- (Medium Stiff) SANDY CLAY (moist)</b><br>Brown, trace gravel                  |                      | -           | 0.0       |                   |
|                    |                |  |                      | -           | 0.0       |                   |
| 6                  |                | <b>CONCRETE DEBRIS</b>   |                      | -           | 0.0       |                   |
|                    |                | <b>CL- (Medium Soft) SANDY CLAY (moist)</b><br>Gray                                  | SS-1<br>7.0 - 8.0'   | -           | 2.3       |                   |
| 8                  |                |  |                      | -           | 1.6       |                   |
|                    |                |  |                      | -           | 1.7       |                   |
| 10                 |                |  |                      | -           | 2.6       |                   |
|                    |                | <b>CL- (Stiff) SANDY CLAY (moist)</b><br>Gray, with gravel, plastic and glass debris |                      | -           | 4.5       |                   |
| 12                 |                |  | SS-2<br>12.0 - 13.0' | -           | 22.8      |                   |
|                    |                |  |                      | -           | 4.9       |                   |
| 14                 |                |  |                      | -           | 0.1       |                   |
| 16                 |                |  |                      |             |           |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-104  
**Date Drilled:** 6/21/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE            |             | No Well Installed |
|--------------------|----------------|---|-------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments  | Sample #<br>Depth | Blow Counts |                   |
| 0                  |                | Ground Surface  |                   |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>   |                   |             |                   |
|                    |                | <b>SC- (Dense) CLAYEY SAND (moist)</b><br>Brown, fine               |                   | -           | 0.0               |
| 2                  |                |   |                   | -           | 0.0               |
|                    |                | <b>CL- (Medium Stiff) SANDY CLAY (moist)</b><br>Brown, trace gravel |                   | -           | 0.0               |
| 4                  |                |   |                   | -           | 0.0               |
|                    |                | <b>CL- (Soft) SANDY CLAY</b><br>Dark Gray, trace gravel             |                   | -           | 0.0               |
| 6                  |                |   |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
|                    |                |   |                   | -           | 5.0               |
|                    |                |   | SS-1              |             |                   |
| 10                 |                | <b>WOOD/FABRIC/DEBRIS</b>   | 9.0 - 10.0'       | -           | 226               |
|                    |                |   |                   | -           | 17.6              |
|                    |                | <b>OH- SILTY SAND (moist)</b><br>Gray, fine, organic                |                   | -           | 0.3               |
| 12                 |                |   |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
| 14                 |                |   |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
| 16                 |                |   |                   |             |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-105  
**Date Drilled:** 6/21/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE               |             | No Well Installed |
|--------------------|----------------|--|----------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample # Depth       | Blow Counts |                   |
| 0                  |                | Ground Surface   |                      |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>  |                      |             | 0.0               |
|                    |                | <b>SC- (Dense) CLAYEY SAND (moist)</b><br>Brown, fine              |                      | -           | 0.0               |
| 2                  |                |  |                      | -           | 0.0               |
|                    |                |  | SS-1<br>3.0 - 4.0'   | -           | 0.0               |
| 4                  |                | <b>CL- (Medium Soft) SANDY CLAY (moist)</b><br>Brown, trace gravel |                      | -           | 0.0               |
| 6                  |                |  |                      | -           | 0.0               |
|                    |                | <b>GW- (Loose) GRAVELLY SAND (moist)</b><br>Gray, medium coarse    |                      | -           | 0.0               |
| 8                  |                |  |                      | -           | 0.0               |
| 10                 |                |  | SS-2<br>10.0 - 11.0' | -           | 0.0               |
|                    |                | <b>OH- SILTY CLAY (moist)</b><br>Gray, organic                     |                      | -           | 0.0               |
| 12                 |                |  |                      | -           | 0.0               |
| 14                 |                |  |                      | -           | 0.0               |
| 16                 |                |  |                      |             |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-106  
**Date Drilled:** 6/21/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE             |             |           |                   |
|--------------------|----------------|---|--------------------|-------------|-----------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments  | Sample #<br>Depth  | Blow Counts | PID (ppm) | No Well Installed |
| 0                  |                | Ground Surface  |                    |             |           |                   |
|                    |                | <b>GRASS / TOP SOIL</b>   |                    |             |           |                   |
|                    |                | <b>SC- (Dense) CLAYEY SAND (moist)</b><br>Brown, fine               |                    | -           | 0.0       |                   |
| 2                  |                |   |                    | -           | 0.0       |                   |
|                    |                |   |                    | -           | 0.0       |                   |
| 4                  |                |   | SS-1<br>3.0 - 4.0' | -           | 0.0       |                   |
|                    |                | <b>CL- (Medium Stiff) SANDY CLAY (moist)</b><br>Brown, trace gravel |                    | -           | 0.0       |                   |
| 6                  |                |   |                    | -           | 0.0       |                   |
|                    |                |   |                    | -           | 0.0       |                   |
| 8                  |                | <b>CONCRETE DEBRIS</b>  |                    | -           | 0.0       |                   |
|                    |                | <b>CL- (Medium Soft) SANDY CLAY (moist)</b><br>Gray                 | SS-2<br>8.0 - 9.0' | -           | 0.0       |                   |
| 10                 |                | <b>CONCRETE DEBRIS</b>  |                    | -           | 0.0       |                   |
|                    |                | <b>OH- (Soft) SANDY CLAY (moist)</b><br>Gray                        |                    | -           | 0.0       |                   |
| 12                 |                |   |                    | -           | 0.0       |                   |
|                    |                |   |                    | -           | 0.0       |                   |
| 14                 |                |   |                    | -           | 0.0       |                   |
|                    |                |   |                    | -           | 0.0       |                   |
| 16                 |                |   |                    |             |           |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.





# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-107  
**Date Drilled:** 6/21/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE             |             | No Well Installed |
|--------------------|----------------|---|--------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments  | Sample # Depth     | Blow Counts |                   |
| 0                  |                | Ground Surface  |                    |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>   |                    |             |                   |
|                    |                | <b>SC- (Dense) CLAYEY SAND (moist)</b><br>Brown, trace gravel       |                    | -           | 0.0               |
| 2                  |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 4                  |                |   | SS-1<br>3.0 - 4.0' | -           | 0.0               |
|                    |                | <b>CL- (Medium Stiff) SANDY CLAY (moist)</b><br>Brown, trace gravel |                    | -           | 0.0               |
| 6                  |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 8                  |                |   |                    | -           | 0.0               |
|                    |                | <b>CL- (Stiff) CLAY (moist)</b><br>Gray, trace gravel               |                    | -           | 0.0               |
| 10                 |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 12                 |                |   |                    | -           | 0.0               |
|                    |                | <b>OH- (Soft) SANDY CLAY (moist)</b><br>Dark Gray, organic          |                    | -           | 0.0               |
| 14                 |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 16                 |                |   |                    |             |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-108  
**Date Drilled:** 6/22/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE             |             |           |                   |
|--------------------|----------------|---|--------------------|-------------|-----------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments  | Sample #<br>Depth  | Blow Counts | PID (ppm) | No Well Installed |
| 0                  |                | Ground Surface  |                    |             |           |                   |
|                    |                | <b>GRASS / TOP SOIL</b>   |                    |             | 0.0       |                   |
|                    |                | <b>SC- (Dense) CLAYEY SAND (moist)</b><br>Brown, fine, trace gravel |                    | -           | 0.0       |                   |
| 2                  |                |   |                    | -           | 0.0       |                   |
|                    |                |   | SS-1<br>3.0 - 4.0' | -           | 0.0       |                   |
| 4                  |                | <b>CL- (Medium Stiff) SANDY CLAY (moist)</b><br>Brown, trace gravel |                    | -           | 0.0       |                   |
|                    |                |   |                    | -           | 0.0       |                   |
| 6                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine               |                    | -           | 0.0       |                   |
|                    |                |   | SS-2<br>7.0 - 8.0' | -           | 0.0       |                   |
| 8                  |                | <b>CL- (Soft) SANDY CLAY (moist)</b><br>Gray, with gravel           |                    | -           | 0.0       |                   |
|                    |                |   |                    | -           | 0.0       |                   |
| 10                 |                | <b>CL- (Medium Stiff) CLAY (moist)</b><br>Gray, trace gravel        |                    | -           | 0.0       |                   |
|                    |                |   |                    | -           | 0.0       |                   |
| 12                 |                |   |                    | -           | 0.0       |                   |
|                    |                |   |                    | -           | 0.0       |                   |
| 14                 |                | <b>OH- SANDY CLAY (moist)</b><br>Dark Gray, organic                 |                    | -           | 0.0       |                   |
|                    |                |   |                    | -           | 0.0       |                   |
| 16                 |                |   |                    |             |           |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-109  
**Date Drilled:** 6/21/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE               |             |           |                   |
|--------------------|----------------|--|----------------------|-------------|-----------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample #<br>Depth    | Blow Counts | PID (ppm) | No Well Installed |
| 0                  |                | Ground Surface   |                      |             |           |                   |
|                    |                | <b>GRASS / TOP SOIL</b>  |                      |             |           |                   |
|                    |                | <b>SC- (Dense) CLAYEY SAND (moist)</b><br>Brown, trace gravel      |                      | -           | 0.0       |                   |
| 2                  |                |  | SS-1<br>2.0 - 3.0'   | -           | 0.0       |                   |
|                    |                | <b>CL- (Medium Soft) SANDY CLAY (moist)</b><br>Brown, trace gravel |                      | -           | 0.0       |                   |
| 4                  |                |  |                      | -           | 0.0       |                   |
| 6                  |                |  |                      | -           | 0.0       |                   |
| 8                  |                | <b>CL- (Medium Stiff) CLAY (moist)</b><br>Brown, trace gravel      |                      | -           | 0.0       |                   |
|                    |                | <b>SW- (Loose) SAND (moist)</b><br>Brown/Gray, medium coarse       |                      | -           | 0.0       |                   |
| 10                 |                | <b>CL- (Medium Soft) SANDY CLAY (moist)</b><br>Dark Gray           |                      | -           | 0.1       |                   |
|                    |                |  |                      | -           | 0.2       |                   |
| 12                 |                |  | SS-2<br>12.0 - 13.0' | -           | 1.2       |                   |
|                    |                |  |                      | -           | 0.9       |                   |
| 14                 |                |  |                      | -           | 0.1       |                   |
| 16                 |                |  |                      |             |           |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-110  
**Date Drilled:** 6/21/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE             |             |           |                   |
|--------------------|----------------|--|--------------------|-------------|-----------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample #<br>Depth  | Blow Counts | PID (ppm) | No Well Installed |
| 0                  |                | Ground Surface   |                    |             |           |                   |
|                    |                | <b>GRASS / TOP SOIL</b>  |                    |             |           |                   |
|                    |                | <b>SC- (Dense) CLAYEY SAND (moist)</b><br>Brown, trace gravel, trace glass |                    | -           | 0.0       |                   |
| 2                  |                |  |                    | -           | 0.0       |                   |
|                    |                |  |                    | -           | 0.0       |                   |
| 4                  |                | <b>WOOD DEBRIS</b>   | SS-1<br>3.0 - 4.0' | -           | 0.0       |                   |
|                    |                | <b>CL- (Medium Stiff) SANDY CLAY (moist)</b><br>Brown, trace gravel        |                    | -           | 0.0       |                   |
| 6                  |                |  |                    | -           | 0.0       |                   |
|                    |                |  |                    | -           | 0.0       |                   |
| 8                  |                |  | SS-2<br>8.0 - 9.0' | -           | 0.0       |                   |
|                    |                | <b>CONCRETE DEBRIS</b>   |                    | -           | 0.0       |                   |
| 10                 |                | <b>GW- (Loose) GRAVELLY SAND (saturated)</b><br>Gray, medium coarse        |                    | -           | 0.0       |                   |
|                    |                |  |                    | -           | 0.0       |                   |
| 12                 |                |  |                    | -           | 0.0       |                   |
|                    |                | <b>CL- (Medium Soft) CLAY (moist)</b><br>Gray                              |                    | -           | 0.0       |                   |
| 14                 |                |  |                    | -           | 0.0       |                   |
| 16                 |                |  |                    |             |           |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-111  
**Date Drilled:** 6/21/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE         |             | No Well Installed |
|--------------------|----------------|---|----------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments  | Sample # Depth | Blow Counts |                   |
| 0                  |                | Ground Surface  |                |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>   |                |             |                   |
|                    |                | <b>SC- (Dense) CLAYEY SAND (moist)</b><br>Brown, trace gravel       |                | -           | 0.0               |
| 2                  |                |   |                | -           | 0.0               |
|                    |                |   |                | -           | 0.0               |
| 4                  |                | <b>CL- (Medium Stiff) SANDY CLAY (moist)</b><br>Brown, trace gravel |                | -           | 0.0               |
|                    |                |   |                | -           | 0.7               |
| 6                  |                | <b>CONCRETE/BRICK DEBRIS</b>  |                | -           | 0.2               |
|                    |                |   | SS-1           |             |                   |
| 8                  |                | <b>SC- CLAYEY SAND</b><br>Dark Gray, with gravel                    | 7.0 - 8.0'     | -           | 2.2               |
|                    |                |   |                | -           | 1.7               |
| 10                 |                |   |                | -           | 0.4               |
|                    |                |   |                | -           | 0.1               |
|                    |                |   |                | -           | 0.0               |
| 12                 |                | <b>CL- (Medium Soft) SANDY CLAY (moist)</b><br>Dark Gray            |                | -           | 0.0               |
|                    |                |   |                | -           | 0.0               |
| 14                 |                |   |                | -           | 0.0               |
|                    |                |   |                | -           | 0.0               |
| 16                 |                |   |                |             |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-112  
**Date Drilled:** 6/21/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE               |             | No Well Installed |
|--------------------|----------------|--|----------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample #<br>Depth    | Blow Counts |                   |
| 0                  |                | Ground Surface   |                      |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>  |                      |             |                   |
|                    |                | <b>SC- (Dense) CLAYEY SAND (moist)</b><br>Brown, fine, trace gravel          |                      | -           | 0.0               |
| 2                  |                | <b>CONCRETE DEBRIS</b>   |                      | -           | 0.0               |
|                    |                | <b>CL- (Medium Soft) SANDY CLAY (moist)</b><br>Brown/Gray, with brick debris |                      | -           | 0.0               |
| 4                  |                |  |                      | -           | 0.0               |
|                    |                | <b>(Medium Soft) SANDY CLAY</b><br>Dark Gray, with concrete debris           |                      | -           | 0.0               |
| 6                  |                |  |                      | -           | 0.1               |
|                    |                |  |                      | -           | 0.5               |
| 8                  |                |  | SS-1<br>8.0 - 9.0'   | -           | 4.1               |
|                    |                |  |                      | -           | 0.2               |
| 10                 |                |  |                      | -           | 0.0               |
|                    |                |  |                      | -           | 0.0               |
| 12                 |                |  |                      | -           | 0.0               |
|                    |                |  |                      | -           | 0.0               |
| 14                 |                |  | SS-2<br>14.0 - 15.0' | -           | 0.0               |
|                    |                |  |                      | -           | 0.0               |
| 16                 |                |  |                      |             |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-113  
**Date Drilled:** 6/21/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE            |             |           |                   |
|--------------------|----------------|--|-------------------|-------------|-----------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample #<br>Depth | Blow Counts | PID (ppm) | No Well Installed |
| 0                  |                | Ground Surface   |                   |             |           |                   |
|                    |                | <b>GRASS / TOP SOIL</b>  |                   |             |           |                   |
|                    |                | <b>SC- (Dense) CLAYEY SAND (moist)</b><br>Brown, fine, with gravel       |                   | -           | 0.0       |                   |
| 2                  |                |  |                   | -           | 0.0       |                   |
|                    |                | <b>GW- GRAVELLY SAND</b><br>Dark Gray, with brick debris                 |                   | -           | 0.0       |                   |
| 4                  |                |  | SS-1              | -           | 0.3       |                   |
|                    |                | <b>CL- (Medium Stiff) SANDY CLAY (moist)</b><br>Gray/Brown, trace gravel | 4.0 - 5.0'        | -           | 0.6       |                   |
| 6                  |                |  |                   | -           | 0.1       |                   |
|                    |                |  |                   | -           | 0.4       |                   |
| 8                  |                |  | SS-2              | -           | 32.6      |                   |
|                    |                | <b>CONCRETE DEBRIS</b>   | 8.0 - 9.0'        | -           | 1.6       |                   |
| 10                 |                |  |                   | -           | 0.7       |                   |
|                    |                | <b>CL- (Medium Soft) SILTY CLAY (moist)</b><br>Gray                      |                   | -           | 0.0       |                   |
| 12                 |                |  |                   | -           | 0.0       |                   |
|                    |                |  |                   | -           | 0.0       |                   |
| 14                 |                |  |                   | -           | 0.0       |                   |
|                    |                |  |                   | -           | 0.0       |                   |
| 16                 |                |  |                   |             |           |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-114  
**Date Drilled:** 6/21/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE             |             | No Well Installed |
|--------------------|----------------|--|--------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample # Depth     | Blow Counts |                   |
| 0                  |                | Ground Surface   |                    |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>  |                    | -           | 0.0               |
|                    |                | <b>CONCRETE DEBRIS</b>   |                    | -           | 0.0               |
| 2                  |                | <b>SC- (Dense) CLAYEY SAND (moist)</b><br>Brown, with gravel         |                    | -           | 0.0               |
| 4                  |                | <b>GC- (Loose) GRAVELLY SAND (moist)</b><br>Medium coarse, with clay | SS-1<br>3.0 - 4.0' | -           | 0.0               |
| 6                  |                | <b>CL- (Medium Stiff) CLAY (moist)</b><br>Brown/Gray, trace gravel   |                    | -           | 0.0               |
| 8                  |                | <b>CL- (Medium Stiff) SILTY CLAY (moist)</b><br>Gray                 |                    | -           | 0.0               |
| 10                 |                |  |                    | -           | 0.0               |
| 12                 |                |  |                    | -           | 0.0               |
| 14                 |                |  |                    | -           | 0.0               |
| 16                 |                |  |                    | -           | 0.0               |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.





# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-115  
**Date Drilled:** 6/21/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE         |             | No Well Installed |
|--------------------|----------------|--|----------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample # Depth | Blow Counts |                   |
| 0                  |                | Ground Surface   |                |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>  |                |             |                   |
|                    |                | <b>SC- (Dense) CLAYEY SAND (moist)</b><br>Brown, trace gravel and brick debris |                | -           | 0.0               |
| 2                  |                |  |                | -           | 0.0               |
|                    |                |  |                | -           | 0.0               |
|                    |                |  | SS-1           | -           | 0.0               |
| 4                  |                | <b>CL- (Medium Soft) SANDY CLAY (moist)</b><br>Brown/Gray, trace gravel        | 3.5 - 4.5'     | -           | 0.0               |
|                    |                |  |                | -           | 0.0               |
| 6                  |                |  |                | -           | 0.0               |
|                    |                |  |                | -           | 0.0               |
| 8                  |                |  |                | -           | 0.0               |
|                    |                |  |                | -           | 0.0               |
| 10                 |                |  |                | -           | 0.0               |
|                    |                |  |                | -           | 0.0               |
| 12                 |                |  |                | -           | 0.0               |
|                    |                |  |                | -           | 0.0               |
| 14                 |                | <b>GW- (Loose) GRAVELLY SAND (saturated)</b><br>Gray, medium coarse            |                | -           | 0.0               |
|                    |                | <b>CL- (Medium Soft) CLAY (moist)</b><br>Gray                                  |                | -           | 0.0               |
| 16                 |                |  |                |             |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-116  
**Date Drilled:** 6/21/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE             |             | No Well Installed |
|--------------------|----------------|--|--------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample #<br>Depth  | Blow Counts |                   |
| 0                  |                | Ground Surface   |                    |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>  |                    |             |                   |
|                    |                | <b>SC- (Medium Dense) CLAYEY SAND (moist)</b><br>Brown, fine, with gravel and brick debris |                    | -           | 0.0               |
| 2                  |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 4                  |                | <b>CL- (Medium Stiff) SANDY CLAY (moist)</b><br>Brown, with gravel                         | SS-1<br>3.0 - 4.0' | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 6                  |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 8                  |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 10                 |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 12                 |                | <b>GW- (Loose) GRAVELLY SAND (saturated)</b><br>Gray, medium coarse                        |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 14                 |                | <b>CL- (Medium Soft) SANDY CLAY (moist)</b><br>Gray, with wood debris                      |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 16                 |                |  |                    |             |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-117  
**Date Drilled:** 6/21/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE             |             | No Well Installed |           |
|--------------------|----------------|--|--------------------|-------------|-------------------|-----------|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample #<br>Depth  | Blow Counts |                   | PID (ppm) |
| 0                  |                | Ground Surface   |                    |             |                   |           |
|                    |                | <b>GRASS / TOP SOIL</b>  |                    |             | 0.0               |           |
|                    |                | <b>SC- (Loose) CLAYEY SAND (moist)</b><br>Brown/Gray, fine, with gravel and brick debris |                    | -           | 0.0               |           |
| 2                  |                |  | SS-1<br>2.0 - 3.0' | -           | 0.0               |           |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine                                    |                    | -           | 0.0               |           |
| 4                  |                |  |                    | -           | 0.0               |           |
| 6                  |                |  |                    | -           | 0.0               |           |
| 8                  |                |  | SS-2<br>7.5 - 8.5' | -           | 0.0               |           |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, medium fine                                |                    | -           | 0.0               |           |
| 10                 |                |  |                    | -           | 0.0               |           |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Light Gray, fine                                  |                    | -           | 0.0               |           |
| 12                 |                |  |                    | -           | 0.0               |           |
| 14                 |                |  |                    | -           | 0.0               |           |
| 16                 |                |  |                    | -           | 0.0               |           |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-118  
**Date Drilled:** 6/21/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE             |             |           |                   |
|--------------------|----------------|---|--------------------|-------------|-----------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments  | Sample #<br>Depth  | Blow Counts | PID (ppm) | No Well Installed |
| 0                  |                | Ground Surface  |                    |             |           |                   |
|                    |                | <b>GRASS / TOP SOIL</b>   |                    |             | 0.0       |                   |
|                    |                | <b>SC- CLAYEY SAND (moist)</b><br>Dark Brown, fine, with gravel |                    | -           | 0.0       |                   |
| 2                  |                |   | SS-1<br>2.0 - 3.0' | -           | 0.0       |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine           |                    | -           | 0.0       |                   |
| 4                  |                |   |                    | -           | 0.0       |                   |
| 6                  |                |   |                    | -           | 0.0       |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine                  |                    | -           | 0.0       |                   |
| 8                  |                |   | SS-2<br>8.0 - 9.0' | -           | 0.0       |                   |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, fine              |                    | -           | 0.0       |                   |
| 10                 |                |   |                    | -           | 0.0       |                   |
| 12                 |                |   |                    | -           | 0.0       |                   |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Light Gray, fine         |                    | -           | 0.0       |                   |
| 14                 |                |   |                    | -           | 0.0       |                   |
| 16                 |                |   |                    | -           | 0.0       |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-119  
**Date Drilled:** 6/21/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE             |             | No Well Installed |
|--------------------|----------------|---|--------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments  | Sample #<br>Depth  | Blow Counts |                   |
| 0                  |                | Ground Surface  |                    |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>   |                    |             |                   |
|                    |                | <b>SC- (Medium Dense) CLAYEY SAND (moist)</b><br>Dark Brown, fine |                    | -           | 0.0               |
| 2                  |                |   | SS-1<br>2.0 - 3.0' | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine             |                    | -           | 0.0               |
| 4                  |                |   |                    | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine                    |                    | -           | 0.0               |
| 6                  |                |   |                    | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine                    |                    | -           | 0.0               |
| 8                  |                |   |                    | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, fine                |                    | -           | 0.0               |
| 10                 |                |   |                    | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Light Gray, fine           |                    | -           | 0.0               |
| 12                 |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 14                 |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 16                 |                |   |                    |             |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-120  
**Date Drilled:** 6/21/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE             |             | No Well Installed |
|--------------------|----------------|--|--------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample #<br>Depth  | Blow Counts |                   |
| 0                  |                | Ground Surface   |                    |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>  |                    |             |                   |
|                    |                | <b>SC- (Medium Dense) CLAYEY SAND (moist)</b><br>Gray/Brown, fine, with gravel |                    | -           | 0.0               |
| 2                  |                |  | SS-1<br>2.0 - 3.0' | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 4                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine                          |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 6                  |                |  | SS-2               | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, medium fine                      | 6.5 - 7.5'         | -           | 0.0               |
| 8                  |                |  |                    | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Light Gray, fine                        |                    | -           | 0.0               |
| 10                 |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 12                 |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 14                 |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 16                 |                |  |                    |             |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-121  
**Date Drilled:** 6/21/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE            |             | No Well Installed |
|--------------------|----------------|---|-------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                                  | Sample #<br>Depth | Blow Counts |                   |
| 0                  |                | Ground Surface  |                   |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>                                   |                   |             |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine     |                   | -           | 0.0               |
| 2                  |                |   |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
| 4                  |                |   |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
| 6                  |                |   | SS-1              | -           | 0.0               |
|                    |                |   | 6.0 - 7.0'        | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, medium fine |                   | -           | 0.0               |
| 8                  |                |   |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
| 10                 |                |   |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Light Gray, fine   |                   | -           | 0.0               |
| 12                 |                |   |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
| 14                 |                |   |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
| 16                 |                |   |                   |             |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-122  
**Date Drilled:** 6/22/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE              |             |           |                   |
|--------------------|----------------|--|---------------------|-------------|-----------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample #<br>Depth   | Blow Counts | PID (ppm) | No Well Installed |
| 0                  |                | Ground Surface   |                     |             |           |                   |
|                    |                | <b>GRASS / TOP SOIL</b>  |                     |             |           |                   |
|                    |                | <b>SC- (Dense) CLAYEY SAND (moist)</b><br>Brown                    |                     | -           | 0.0       |                   |
| 2                  |                |  |                     | -           | 0.0       |                   |
|                    |                |  |                     | -           | 0.0       |                   |
| 4                  |                | <b>CL- (Medium Stiff) SANDY CLAY (moist)</b><br>Brown              |                     | -           | 0.0       |                   |
|                    |                | <b>BRICK DEBRIS</b>  | SS-1<br>5.0 - 6.0'  | -           | 0.0       |                   |
| 6                  |                | <b>CL- (Medium Stiff) SANDY CLAY (moist)</b><br>Brown/Gray         |                     | -           | 0.0       |                   |
|                    |                |  |                     | -           | 0.0       |                   |
| 8                  |                | <b>CONCRETE AND BRICK DEBRIS</b>                                   |                     | -           | 0.0       |                   |
|                    |                | <b>CL- (Medium Stiff) SANDY CLAY (moist)</b><br>Gray, trace gravel | SS-2<br>9.0 - 10.0' | -           | 0.9       |                   |
| 10                 |                |  |                     | -           | 0.2       |                   |
|                    |                |  |                     | -           | 0.0       |                   |
| 12                 |                |  |                     | -           | 0.0       |                   |
|                    |                |  |                     | -           | 0.0       |                   |
| 14                 |                |  |                     | -           | 0.0       |                   |
|                    |                |  |                     | -           | 0.0       |                   |
| 16                 |                |  |                     |             |           |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.





# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-123  
**Date Drilled:** 6/21/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE             |             | No Well Installed |
|--------------------|----------------|---|--------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments  | Sample #<br>Depth  | Blow Counts |                   |
| 0                  |                | Ground Surface  |                    |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>   |                    |             |                   |
|                    |                | <b>SC- (Dense) CLAYEY SAND (moist)</b><br>Brown                     |                    | -           | 0.0               |
| 2                  |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 4                  |                |   | SS-1<br>3.0 - 4.0' | -           | 0.0               |
|                    |                | <b>CL- (Medium Stiff) SANDY CLAY (moist)</b><br>Brown, trace gravel |                    | -           | 0.0               |
| 6                  |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 8                  |                |   |                    | -           | 0.0               |
|                    |                | <b>CL- (Medium Stiff) SANDY CLAY (moist)</b><br>Gray, trace gravel  |                    | -           | 0.0               |
| 10                 |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 12                 |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 14                 |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 16                 |                |   |                    |             |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-124  
**Date Drilled:** 6/22/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE             |             | No Well Installed |
|--------------------|----------------|--|--------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample # Depth     | Blow Counts |                   |
| 0                  |                | Ground Surface   |                    |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>  |                    |             |                   |
|                    |                | <b>SC- (Dense) CLAYEY SAND (moist)</b><br>Brown                          |                    | -           | 0.0               |
| 2                  |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 4                  |                | <b>CL- (Medium Stiff) SANDY CLAY (moist)</b><br>Brown, trace gravel      |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 6                  |                |  |                    | -           | 0.0               |
|                    |                | <b>SC- CLAYEY SAND (moist)</b><br>Dark Gray, with gravel                 | SS-1<br>6.5 - 7.5' | -           | 0.0               |
| 8                  |                | <b>SC- CLAYEY SAND (saturated)</b><br>Dark Gray, with gravel             |                    | -           | 0.0               |
|                    |                | <b>CL- (Medium Stiff) SANDY CLAY (moist)</b><br>Gray/Brown, trace gravel |                    | -           | 0.0               |
| 10                 |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 12                 |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 14                 |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 16                 |                |  |                    |             |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-125  
**Date Drilled:** 6/22/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE             |             | No Well Installed |
|--------------------|----------------|--|--------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample #<br>Depth  | Blow Counts |                   |
| 0                  |                | Ground Surface   |                    |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>  |                    |             |                   |
|                    |                | <b>SC- (Dense) CLAYEY SAND (moist)</b><br>Brown                          |                    | -           | 0.0               |
| 2                  |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 4                  |                |  | SS-1<br>3.0 - 4.0' | -           | 0.0               |
|                    |                | <b>CL- (Medium Stiff) SANDY CLAY (moist)</b><br>Brown, trace gravel      |                    | -           | 0.0               |
| 6                  |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 8                  |                |  |                    | -           | 0.0               |
|                    |                | <b>CL- (Medium Stiff) SANDY CLAY (moist)</b><br>Gray/Brown, trace gravel |                    | -           | 0.0               |
| 10                 |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 12                 |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 14                 |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 16                 |                |  |                    |             |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-126  
**Date Drilled:** 6/21/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE            |             | No Well Installed |
|--------------------|----------------|---|-------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                              | Sample #<br>Depth | Blow Counts |                   |
| 0                  |                | Ground Surface  |                   |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>                               |                   |             |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine        |                   | -           | 0.0               |
| 2                  |                |   |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
| 4                  |                |   |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine | SS-1              | -           | 0.0               |
| 6                  |                |   | 5.0 - 6.0'        |             |                   |
|                    |                | <b>REFUSAL @ 6' bgs</b>                               |                   |             |                   |

**Completion Notes:** EOB @ 6' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-127  
**Date Drilled:** 6/21/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE         |             | No Well Installed |
|--------------------|----------------|--|----------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                                       | Sample # Depth | Blow Counts |                   |
| 0                  |                | Ground Surface   |                |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>  |                |             |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine                 |                | -           | 0.0               |
| 2                  |                |  |                | -           | 0.0               |
|                    |                |  |                | -           | 0.0               |
| 4                  |                |  |                | -           | 0.0               |
|                    |                |  |                | -           | 0.0               |
| 6                  |                | <b>SP- (Loose) SAND (moist)</b><br>Dark Brown, medium fine     | SS-1           | -           | 0.0               |
|                    |                |  | 6.5 - 7.5'     | -           | 0.0               |
| 8                  |                | <b>SP- (Loose) SAND (saturated)</b><br>Dark Brown, medium fine |                | -           | 0.0               |
|                    |                |  |                | -           | 0.0               |
| 10                 |                | <b>SP- (Loose) SAND (saturated)</b><br>Gray, medium fine       |                | -           | 0.0               |

**Completion Notes:** EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-128  
**Date Drilled:** 6/21/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE            |             | No Well Installed |
|--------------------|----------------|--|-------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                                   | Sample #<br>Depth | Blow Counts |                   |
| 0                  |                | Ground Surface   |                   |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>                                    |                   |             |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine             |                   | -           | 0.0               |
| 2                  |                |  |                   | -           | 0.0               |
|                    |                |  |                   | -           | 0.0               |
| 4                  |                |  |                   | -           | 0.0               |
|                    |                |  |                   | -           | 0.0               |
| 6                  |                | <b>SP- (Loose) SAND (moist)</b><br>Gray, fine              | SS-1              | -           | 0.0               |
|                    |                |  | 6.0 - 7.0'        |             |                   |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Gray, fine          |                   | -           | 0.0               |
| 8                  |                |  |                   | -           | 0.0               |
|                    |                | <b>SW- (Loose) SAND (saturated)</b><br>Gray, medium coarse |                   | -           | 0.0               |
| 10                 |                |  |                   |             |                   |

**Completion Notes:** EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-129  
**Date Drilled:** 6/21/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE         |             | No Well Installed |
|--------------------|----------------|---|----------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                                  | Sample # Depth | Blow Counts |                   |
| 0                  |                | Ground Surface  |                |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>                                   |                |             |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine            |                | -           | 0.0               |
| 2                  |                |   |                | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine     |                | -           | 0.0               |
| 4                  |                |   | SS-1           | -           | 0.0               |
|                    |                |   | 4.5 - 3.5'     | -           | 0.0               |
| 6                  |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, medium fine |                | -           | 0.0               |
| 8                  |                |   |                | -           | 0.0               |
| 10                 |                |   |                | -           | 0.0               |

**Completion Notes:** EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-130  
**Date Drilled:** 6/21/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE            |             | No Well Installed |
|--------------------|----------------|---|-------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                                  | Sample #<br>Depth | Blow Counts |                   |
| 0                  |                | Ground Surface  |                   |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>                                   |                   |             |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine            |                   | -           | 0.0               |
| 2                  |                |   |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
| 4                  |                |   |                   | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine     |                   | -           | 0.0               |
|                    |                |   | SS-1              | -           | 0.0               |
| 6                  |                |   | 5.0 - 6.0'        | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, medium fine |                   | -           | 0.0               |
| 8                  |                |   |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
| 10                 |                |   |                   | -           | 0.0               |

**Completion Notes:** EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.





# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-131  
**Date Drilled:** 6/22/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE         |             | No Well Installed |
|--------------------|----------------|---|----------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                                  | Sample # Depth | Blow Counts |                   |
| 0                  |                | Ground Surface  |                |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>                                   |                |             |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Light Brown, fine      |                | -           | 0.0               |
| 2                  |                |   |                | -           | 0.0               |
|                    |                |   |                | -           | 0.0               |
| 4                  |                |   |                | -           | 0.0               |
|                    |                |   |                | -           | 0.0               |
| 6                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine     |                | -           | 0.0               |
|                    |                |   | SS-1           | -           | 0.0               |
|                    |                |   | 6.5 - 7.5'     | -           | 0.0               |
| 8                  |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, medium fine |                | -           | 0.0               |
|                    |                |   |                | -           | 0.0               |
| 10                 |                |   |                | -           | 0.0               |

**Completion Notes:** EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-132  
**Date Drilled:** 6/22/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE         |             | No Well Installed |
|--------------------|----------------|---|----------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                                  | Sample # Depth | Blow Counts |                   |
| 0                  |                | Ground Surface  |                |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>                                   |                |             |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Light Brown, fine      |                | -           | 0.0               |
| 2                  |                |   |                | -           | 0.0               |
|                    |                |   |                | -           | 0.0               |
| 4                  |                |   |                | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine     |                | -           | 0.0               |
| 6                  |                |   | SS-1           | -           | 0.0               |
|                    |                |   | 6.0 - 7.0'     | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, medium fine |                | -           | 0.0               |
| 8                  |                |   |                | -           | 0.0               |
|                    |                |   |                | -           | 0.0               |
| 10                 |                |   |                | -           | 0.0               |

**Completion Notes:** EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-133  
**Date Drilled:** 6/28/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE            |             | No Well Installed |
|--------------------|----------------|--|-------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                           | Sample #<br>Depth | Blow Counts |                   |
| 0                  |                | Ground Surface                                     |                   |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>                            |                   |             |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine     |                   | -           | 0.0               |
| 2                  |                |  |                   | -           | 0.0               |
|                    |                |  |                   | -           | 0.0               |
| 4                  |                |  |                   | -           | 0.0               |
|                    |                |  |                   | -           | 0.0               |
| 6                  |                |  | SS-1              | -           | 0.0               |
|                    |                |  | 6.0 - 7.0'        | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, fine |                   | -           | 0.0               |
| 8                  |                |  |                   | -           | 0.0               |
|                    |                |  |                   | -           | 0.0               |
| 10                 |                |  |                   | -           | 0.0               |

**Completion Notes:** EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-134  
**Date Drilled:** 6/28/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE         |             | No Well Installed |
|--------------------|----------------|---|----------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                                  | Sample # Depth | Blow Counts |                   |
| 0                  |                | Ground Surface  |                |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>                                   |                |             |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine            |                | -           | 0.0               |
| 2                  |                |   |                | -           | 0.0               |
|                    |                |   |                | -           | 0.0               |
| 4                  |                |   |                | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine     |                | -           | 0.0               |
| 6                  |                |   | SS-1           | -           | 0.0               |
|                    |                |   | 6.0 - 7.0'     | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, medium fine |                | -           | 0.0               |
| 8                  |                |   |                | -           | 0.0               |
|                    |                |   |                | -           | 0.0               |
| 10                 |                |   |                | -           | 0.0               |

**Completion Notes:** EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-135  
**Date Drilled:** 6/28/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE             |             | No Well Installed |
|--------------------|----------------|---|--------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                                  | Sample #<br>Depth  | Blow Counts |                   |
| 0                  |                | Ground Surface  |                    |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>                                   |                    |             |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine            |                    | -           | 0.0               |
| 2                  |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 4                  |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 6                  |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 8                  |                |   | SS-1<br>7.0 - 8.0' | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, medium fine |                    | -           | 0.0               |
| 10                 |                |   |                    | -           | 0.0               |

**Completion Notes:** EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-136  
**Date Drilled:** 6/29/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE            |             | No Well Installed |
|--------------------|----------------|---|-------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                                  | Sample #<br>Depth | Blow Counts |                   |
| 0                  |                | Ground Surface  |                   |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>                                   |                   |             |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine            |                   | -           | 0.0               |
| 2                  |                |   |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
| 4                  |                |   |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
| 6                  |                |   |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine     | SS-1              | -           | 0.0               |
| 8                  |                |   | 7.0 - 8.0'        | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, medium fine |                   | -           | 0.0               |
| 10                 |                |   |                   | -           | 0.0               |

**Completion Notes:** EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-137  
**Date Drilled:** 6/29/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE            |             | No Well Installed |
|--------------------|----------------|---|-------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                                  | Sample #<br>Depth | Blow Counts |                   |
| 0                  |                | Ground Surface  |                   |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>                                   |                   |             |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine            |                   | -           | 0.0               |
| 2                  |                |   |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
| 4                  |                |   |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
| 6                  |                |   |                   | -           | 0.0               |
|                    |                |   | SS-1              | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine     | 6.5 - 7.5'        | -           | 0.0               |
| 8                  |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, medium fine |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
| 10                 |                |   |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
| 12                 |                |   |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
| 14                 |                |   |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
| 16                 |                |   |                   |             |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-138  
**Date Drilled:** 6/29/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE             |             | No Well Installed |           |
|--------------------|----------------|---|--------------------|-------------|-------------------|-----------|
| Depth (ft.)        | Boring Profile | Description and Comments                                  | Sample # Depth     | Blow Counts |                   | PID (ppm) |
| 0                  |                | Ground Surface  |                    |             |                   |           |
|                    |                | <b>GRASS / TOP SOIL</b>                                   |                    |             |                   |           |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine            |                    | -           | 0.0               |           |
| 2                  |                |   |                    | -           | 0.0               |           |
|                    |                |   |                    | -           | 0.0               |           |
| 4                  |                |   |                    | -           | 0.0               |           |
|                    |                |   |                    | -           | 0.0               |           |
| 6                  |                |   |                    | -           | 0.0               |           |
|                    |                |   |                    | -           | 0.0               |           |
| 8                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine     | SS-1<br>7.0 - 8.0' | -           | 0.0               |           |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, medium fine |                    | -           | 0.0               |           |
| 10                 |                |   |                    | -           | 0.0               |           |
|                    |                |   |                    | -           | 0.0               |           |
| 12                 |                |   |                    | -           | 0.0               |           |
|                    |                |   |                    | -           | 0.0               |           |
| 14                 |                |   |                    | -           | 0.0               |           |
|                    |                |   |                    | -           | 0.0               |           |
| 16                 |                |   |                    |             |                   |           |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.





# Boring Log .

**Project No.:** 01-6124-3-001

**Boring No.:** PSB-139

**Project Name:** Vacant Land

**Date Drilled:** 6/29/2016

**Facility ID#:**

**Drill Rig:** 6712 DT/ HA

**Logged By:** KL

**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE            |             | No Well Installed |           |
|--------------------|----------------|--|-------------------|-------------|-------------------|-----------|
| Depth (ft.)        | Boring Profile | Description and Comments                           | Sample #<br>Depth | Blow Counts |                   | PID (ppm) |
| 0                  |                | Ground Surface                                     |                   |             |                   |           |
|                    |                | <b>GRASS / TOP SOIL</b>                            |                   |             | 0.0               |           |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine     |                   | -           | 0.0               |           |
| 2                  |                |  |                   | -           | 0.0               |           |
| 4                  |                |  |                   | -           | 0.0               |           |
| 6                  |                |  |                   | -           | 0.0               |           |
|                    |                |  | SS-1              | -           | 0.0               |           |
|                    |                |  | 6.5 - 7.5'        | -           | 0.0               |           |
| 8                  |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, fine |                   | -           | 0.0               |           |
| 10                 |                |  |                   | -           | 0.0               |           |
| 12                 |                |  |                   | -           | 0.0               |           |
| 14                 |                |  |                   | -           | 0.0               |           |
| 16                 |                |  |                   | -           | 0.0               |           |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-140  
**Date Drilled:** 6/29/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE             |             | No Well Installed |
|--------------------|----------------|---|--------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments  | Sample #<br>Depth  | Blow Counts |                   |
| 0                  |                | Ground Surface  |                    |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>   |                    |             |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Gray, fine                   |                    | -           | 0.0               |
| 2                  |                |   |                    | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Black/Purple, staining, fine | SS-1<br>3.0 - 4.0' | -           | 0.0               |
| 4                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine           |                    | -           | 0.0               |
| 6                  |                |   | SS-2<br>6.0 - 7.0' | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Gray, fine               |                    | -           | 0.0               |
| 8                  |                |   |                    | -           | 0.0               |
| 10                 |                |   |                    | -           | 0.0               |
| 12                 |                |   |                    | -           | 0.0               |
| 14                 |                |   |                    | -           | 0.0               |
| 16                 |                |   |                    | -           | 0.0               |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-141  
**Date Drilled:** 6/29/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE             |             | No Well Installed |
|--------------------|----------------|---|--------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                                  | Sample # Depth     | Blow Counts |                   |
| 0                  |                | Ground Surface  |                    |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>                                   |                    |             |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine            |                    | -           | 0.0               |
| 2                  |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 4                  |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 6                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine     |                    | -           | 0.0               |
|                    |                |   | SS-1<br>7.0 - 8.0' | -           | 0.0               |
| 8                  |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, medium fine |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 10                 |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 12                 |                | <b>SP- (Loose) SAND (saturated)</b><br>Gray, fine         |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 14                 |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 16                 |                |   |                    |             |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-142  
**Date Drilled:** 6/29/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE            |             | No Well Installed |
|--------------------|----------------|---|-------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                                  | Sample #<br>Depth | Blow Counts |                   |
| 0                  |                | Ground Surface  |                   |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>                                   |                   |             |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine            |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
| 2                  |                |   |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
| 4                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine     |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
| 6                  |                |   |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
| 8                  |                |   | SS-1              | -           | 0.0               |
|                    |                |   | 8.0 - 9.0'        | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, medium fine |                   | -           | 0.0               |
| 10                 |                |   |                   | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Gray, fine         |                   | -           | 0.0               |
| 12                 |                |   |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
| 14                 |                |   |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
| 16                 |                |   |                   |             |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-143  
**Date Drilled:** 6/29/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE         |             | No Well Installed |
|--------------------|----------------|---|----------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments  | Sample # Depth | Blow Counts |                   |
| 0                  |                | Ground Surface  |                |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>   |                |             |                   |
|                    |                | <b>SC- (Medium Dense) CLAYEY SAND (moist)</b><br>Dark Brown, fine |                | -           | 0.0               |
| 2                  |                |   |                | -           | 0.0               |
|                    |                |   |                | -           | 0.0               |
| 4                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine                    |                | -           | 0.0               |
|                    |                |   |                | -           | 0.0               |
| 6                  |                |   |                | -           | 0.0               |
|                    |                |   |                | -           | 0.0               |
| 8                  |                |   |                | -           | 0.0               |
|                    |                |   | SS-1           | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, fine                | 8.5 - 9.5'     | -           | 0.0               |
| 10                 |                |   |                | -           | 0.0               |
|                    |                |   |                | -           | 0.0               |
| 12                 |                | <b>SP- (Loose) SAND (saturated)</b><br>Gray, fine                 |                | -           | 0.0               |
|                    |                |   |                | -           | 0.0               |
| 14                 |                |   |                | -           | 0.0               |
|                    |                |   |                | -           | 0.0               |
| 16                 |                |   |                |             |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

## Boring Log .

**Boring No.:** PSB-144  
**Date Drilled:** 6/29/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE            |             | No Well Installed |           |
|--------------------|----------------|---|-------------------|-------------|-------------------|-----------|
| Depth (ft.)        | Boring Profile | Description and Comments                          | Sample #<br>Depth | Blow Counts |                   | PID (ppm) |
| 0                  |                | Ground Surface                                    |                   |             |                   |           |
|                    |                | <b>GRASS / TOP SOIL</b>                           |                   |             |                   |           |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine    |                   | -           | 0.0               |           |
| 2                  |                |   |                   | -           | 0.0               |           |
|                    |                |   |                   | -           | 0.0               |           |
| 4                  |                |   |                   | -           | 0.0               |           |
|                    |                |   |                   | -           | 0.0               |           |
| 6                  |                |   |                   | -           | 0.0               |           |
|                    |                |   |                   | -           | 0.0               |           |
| 8                  |                |   | SS-1              | -           | 0.0               |           |
|                    |                |   | 8.0 - 9.0'        | -           | 0.0               |           |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Gray, fine |                   | -           | 0.0               |           |
| 10                 |                |   |                   | -           | 0.0               |           |
|                    |                |   |                   | -           | 0.0               |           |
| 12                 |                |   |                   | -           | 0.0               |           |
|                    |                |   |                   | -           | 0.0               |           |
| 14                 |                |   |                   | -           | 0.0               |           |
|                    |                |   |                   | -           | 0.0               |           |
| 16                 |                |   |                   |             |                   |           |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-145  
**Date Drilled:** 6/22/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE             |             | No Well Installed |
|--------------------|----------------|---|--------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments  | Sample #<br>Depth  | Blow Counts |                   |
| 0                  |                | Ground Surface  |                    |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>   |                    |             |                   |
|                    |                | <b>SC- (Dense) CLAYEY SAND (moist)</b><br>Brown, fine               |                    | -           | 0.0               |
| 2                  |                |   | SS-1<br>2.0 - 3.0' | -           | 0.0               |
|                    |                | <b>CL- (Medium Stiff) SANDY CLAY (moist)</b><br>Brown, trace gravel |                    | -           | 0.0               |
| 4                  |                |   |                    | -           | 0.0               |
| 6                  |                |   |                    | -           | 0.0               |
|                    |                | <b>SW- (Loose) SAND (moist)</b><br>Gray, medium coarse              |                    | -           | 0.0               |
| 8                  |                |   | SS-2<br>7.5 - 8.5' | -           | 0.0               |
|                    |                | <b>(Medium Stiff) SANDY CLAY (moist)</b><br>Gray, with brick debris |                    | -           | 0.0               |
| 10                 |                |   |                    | -           | 0.0               |
|                    |                | <b>CL- (Medium Stiff) CLAY (moist)</b><br>Gray, trace gravel        |                    | -           | 0.0               |
| 12                 |                |   |                    | -           | 0.0               |
| 14                 |                |   |                    | -           | 0.0               |
| 16                 |                |   |                    |             |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-146  
**Date Drilled:** 6/22/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE             |             | No Well Installed |
|--------------------|----------------|--|--------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                                     | Sample #<br>Depth  | Blow Counts |                   |
| 0                  |                | Ground Surface   |                    |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>                                      |                    |             |                   |
|                    |                | <b>SC- (Dense) CLAYEY SAND (moist)</b><br>Brown              |                    | -           | 0.0               |
| 2                  |                |  | SS-1<br>2.0 - 3.0' | -           | 0.0               |
|                    |                | <b>CL- (Stiff) SANDY CLAY (moist)</b><br>Brown, trace gravel |                    | -           | 0.0               |
| 4                  |                |  |                    | -           | 0.0               |
| 6                  |                |  |                    | -           | 0.0               |
| 8                  |                |  |                    | -           | 0.0               |
|                    |                | <b>CL- (Stiff) CLAY (moist)</b><br>Gray, trace gravel        |                    | -           | 0.0               |
| 10                 |                |  |                    | -           | 0.0               |
| 12                 |                |  |                    | -           | 0.0               |
| 14                 |                |  |                    | -           | 0.0               |
|                    |                | <b>GW- (Loose) GRAVELLY SAND</b><br>Gray, medium coarse      |                    | -           | 0.0               |
|                    |                | <b>CL- (Stiff) CLAY (moist)</b><br>Gray, trace gravel        |                    |             |                   |
| 16                 |                |  |                    |             |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.





# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-147  
**Date Drilled:** 6/22/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE         |             | No Well Installed |
|--------------------|----------------|--|----------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample # Depth | Blow Counts |                   |
| 0                  |                | Ground Surface   |                |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>  |                |             |                   |
|                    |                | <b>SC- (Dense) CLAYEY SAND (moist)</b><br>Brown, fine                |                | -           | 0.0               |
| 2                  |                |  |                | -           | 0.0               |
|                    |                | <b>CL- (Medium Stiff) SANDY CLAY (moist)</b><br>Brown, trace gravel  |                | -           | 0.0               |
| 4                  |                |  |                | -           | 0.0               |
|                    |                |  | SS-1           | -           | 0.0               |
| 6                  |                | <b>BRICK DEBRIS</b>  | 5.0 - 6.0'     | -           | 0.0               |
|                    |                | <b>CL- (Medium Stiff) CLAY (moist)</b><br>Brown, trace gravel        |                | -           | 0.0               |
| 8                  |                |  |                | -           | 0.0               |
|                    |                |  |                | -           | 0.0               |
| 10                 |                | <b>CL- (Stiff) CLAY (moist)</b><br>Gray, trace gravel and sand       |                | -           | 0.0               |
| 12                 |                |  |                | -           | 0.0               |
|                    |                |  |                | -           | 0.0               |
| 14                 |                | <b>SC- (Loose) CLAYEY SAND (saturated)</b><br>Dark Gray, with gravel |                | -           | 0.0               |
| 16                 |                |  |                |             |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-148  
**Date Drilled:** 6/28/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE             |             | No Well Installed |
|--------------------|----------------|--|--------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample #<br>Depth  | Blow Counts |                   |
| 0                  |                | Ground Surface   |                    |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>  |                    |             |                   |
|                    |                | <b>SC- (Medium Dense) CLAYEY SAND (moist)</b><br>Gray, fine, with glass and gravel |                    | -           | 0.0               |
| 2                  |                |  |                    | -           | 0.0               |
|                    |                |  | SS-1<br>2.0 - 3.0' | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine                              |                    | -           | 0.0               |
| 4                  |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 6                  |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 8                  |                |  |                    | -           | 0.0               |
|                    |                |  | SS-2<br>8.5 - 9.5' | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, medium fine                          |                    | -           | 0.0               |
| 10                 |                |  |                    |             |                   |

**Completion Notes:** EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-149  
**Date Drilled:** 6/28/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE            |             | No Well Installed |
|--------------------|----------------|--|-------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                           | Sample #<br>Depth | Blow Counts |                   |
| 0                  |                | Ground Surface                                     |                   |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>                            |                   |             |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine     |                   | -           | 0.0               |
| 2                  |                |  |                   | -           | 0.0               |
|                    |                |  |                   | -           | 0.0               |
| 4                  |                |  |                   | -           | 0.0               |
|                    |                |  |                   | -           | 0.0               |
| 6                  |                |  | SS-1              | -           | 0.0               |
|                    |                |  | 6.0 - 7.0'        | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, fine |                   | -           | 0.0               |
| 8                  |                |  |                   | -           | 0.0               |
|                    |                |  |                   | -           | 0.0               |
| 10                 |                |  |                   | -           | 0.0               |

**Completion Notes:** EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-150  
**Date Drilled:** 6/29/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE            |             | No Well Installed |
|--------------------|----------------|--|-------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                           | Sample #<br>Depth | Blow Counts |                   |
| 0                  |                | Ground Surface                                     |                   |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>                            |                   |             |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine     |                   | -           | 0.0               |
| 2                  |                |  |                   | -           | 0.0               |
|                    |                |  |                   | -           | 0.0               |
| 4                  |                |  |                   | -           | 0.0               |
|                    |                |  |                   | -           | 0.0               |
| 6                  |                |  |                   | -           | 0.0               |
|                    |                |  |                   | -           | 0.0               |
| 8                  |                |  |                   | -           | 0.0               |
|                    |                |  | SS-1              | -           | 0.0               |
|                    |                |  | 8.5 - 9.5'        | -           | 0.0               |
| 10                 |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, fine |                   |             |                   |

**Completion Notes:** EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-151  
**Date Drilled:** 6/28/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE         |             |           |                   |
|--------------------|----------------|---|----------------|-------------|-----------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments  | Sample # Depth | Blow Counts | PID (ppm) | No Well Installed |
| 0                  |                | Ground Surface  |                |             |           |                   |
|                    |                | <b>GRASS / TOP SOIL</b>   |                |             | 0.0       |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Dark Brown, fine, with concrete debris |                | -           | 0.0       |                   |
| 2                  |                |   |                | -           | 0.0       |                   |
|                    |                |   | SS-1           | -           | 0.0       |                   |
| 4                  |                |   | 3.0 - 4.0'     | -           | 0.0       |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine                            |                | -           | 0.0       |                   |
| 6                  |                |   |                | -           | 0.0       |                   |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, fine                        |                | -           | 0.0       |                   |
| 8                  |                |   |                | -           | 0.0       |                   |
|                    |                |   |                | -           | 0.0       |                   |
| 10                 |                |   |                | -           | 0.0       |                   |

**Completion Notes:** EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-152  
**Date Drilled:** 6/28/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE             |             | No Well Installed |
|--------------------|----------------|---|--------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                            | Sample #<br>Depth  | Blow Counts |                   |
| 0                  |                | Ground Surface                                      |                    |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>                             |                    |             |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Dark Brown, fine |                    | -           | 0.0               |
| 2                  |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 4                  |                |   | SS-1<br>3.0 - 4.0' | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 6                  |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 8                  |                | <b>REFUSAL @ 7' bgs</b>                             |                    |             |                   |

**Completion Notes:** EOB @ 7' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-153  
**Date Drilled:** 6/28/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE             |             | No Well Installed |
|--------------------|----------------|---|--------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                          | Sample #<br>Depth  | Blow Counts |                   |
| 0                  |                | Ground Surface                                    |                    |             |                   |
| 0                  |                | <b>GRASS / TOP SOIL</b>                           |                    | -           | 0.0               |
| 2                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine    |                    | -           | 0.0               |
| 2                  |                |   |                    | -           | 0.0               |
| 4                  |                |   |                    | -           | 0.0               |
| 4                  |                |   |                    | -           | 0.0               |
| 6                  |                |   |                    | -           | 0.0               |
| 6                  |                |   |                    | -           | 0.0               |
| 8                  |                |   | SS-1<br>7.0 - 8.0' | -           | 0.0               |
| 8                  |                | <b>SP- (Loose) SAND (saturated)</b><br>Gray, fine |                    | -           | 0.0               |
| 10                 |                |   |                    | -           | 0.0               |
| 10                 |                |   |                    |             | 0.0               |
| 12                 |                |   |                    |             | 0.0               |
| 12                 |                |   |                    |             | 0.0               |
| 14                 |                |   |                    |             | 0.0               |
| 14                 |                |   |                    |             | 0.0               |
| 16                 |                |   |                    |             |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-154  
**Date Drilled:** 6/27/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE             |             | No Well Installed |
|--------------------|----------------|---|--------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                          | Sample #<br>Depth  | Blow Counts |                   |
| 0                  |                | Ground Surface                                    |                    |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>                           |                    | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine    |                    | -           | 0.0               |
| 2                  |                |   |                    | -           | 0.0               |
| 4                  |                |   |                    | -           | 0.0               |
| 6                  |                |   |                    | -           | 0.0               |
| 8                  |                |   |                    | -           | 0.0               |
|                    |                |   | SS-1<br>8.0 - 9.0' | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Gray, fine |                    | -           | 0.0               |
| 10                 |                |   |                    |             | 0.0               |
| 12                 |                |   |                    |             | 0.0               |
| 14                 |                |   |                    |             | 0.0               |
| 16                 |                |   |                    |             | 0.0               |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.





# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-155  
**Date Drilled:** 6/27/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE            |             | No Well Installed |
|--------------------|----------------|--|-------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                           | Sample #<br>Depth | Blow Counts |                   |
| 0                  |                | Ground Surface                                     |                   |             |                   |
| 0 - 1.5            |                | <b>GRASS / TOP SOIL</b>                            |                   | -           | 0.0               |
| 1.5 - 4.0          |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine     |                   | -           | 0.0               |
| 4.0 - 4.5          |                |  | SS-1              | -           | 0.0               |
| 4.5 - 5.0          |                |  | 4.0 - 5.0'        | -           | 0.0               |
| 5.0 - 6.0          |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, fine |                   | -           | 0.0               |
| 6.0 - 7.0          |                |  |                   | -           | 0.0               |
| 7.0 - 8.0          |                | <b>SP- (Loose) SAND (saturated)</b><br>Gray, fine  |                   | -           | 0.0               |
| 8.0 - 9.0          |                |  |                   | -           | 0.0               |
| 9.0 - 10.0         |                |  |                   | -           | 0.0               |

**Completion Notes:** EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-156  
**Date Drilled:** 6/27/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE             |             | No Well Installed |
|--------------------|----------------|--|--------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                           | Sample #<br>Depth  | Blow Counts |                   |
| 0                  |                | Ground Surface                                     |                    |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>                            |                    | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine     |                    | -           | 0.0               |
| 2                  |                |  |                    | -           | 0.0               |
| 4                  |                |  |                    | -           | 0.0               |
|                    |                |  | SS-1<br>4.0 - 5.0' | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, fine |                    | -           | 0.0               |
| 6                  |                |  |                    | -           | 0.0               |
| 8                  |                |  |                    | -           | 0.0               |
| 10                 |                |  |                    | -           | 0.0               |

**Completion Notes:** EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-157  
**Date Drilled:** 6/27/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE            |             | No Well Installed |
|--------------------|----------------|--|-------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample #<br>Depth | Blow Counts |                   |
| 0                  |                | Ground Surface   |                   |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>  |                   | -           | 0.0               |
|                    |                | <b>GW- (Loose) GRAVELLY SAND (moist)</b><br>Dark Brown, medium coarse, with glass/brick debris |                   | -           | 0.0               |
| 2                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine  |                   | -           | 0.0               |
|                    |                |  |                   | -           | 0.0               |
| 4                  |                |  | SS-1              | -           | 0.0               |
|                    |                |  | 4.0 - 5.0'        | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, medium fine                                      |                   | -           | 0.0               |
| 6                  |                |  |                   | -           | 0.0               |
|                    |                |  |                   | -           | 0.0               |
| 8                  |                |  |                   | -           | 0.0               |
|                    |                |  |                   | -           | 0.0               |
| 10                 |                |  |                   | -           | 0.0               |

**Completion Notes:** EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-158  
**Date Drilled:** 6/27/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE            |                    | No Well Installed |           |
|--------------------|----------------|---|-------------------|--------------------|-------------------|-----------|
| Depth (ft.)        | Boring Profile | Description and Comments                                  | Sample #<br>Depth | Blow Counts        |                   | PID (ppm) |
| 0                  |                | Ground Surface  |                   |                    |                   |           |
|                    |                | <b>GRASS / TOP SOIL</b>                                   |                   | -                  | 0.0               |           |
|                    |                |   |                   | -                  | 0.0               |           |
| 2                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine     |                   | -                  | 0.0               |           |
|                    |                |   |                   | -                  | 0.0               |           |
| 4                  |                |   |                   | -                  | 0.0               |           |
|                    |                |   |                   | SS-1<br>4.0 - 5.0' | -                 | 0.0       |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, medium fine |                   |                    | -                 | 0.0       |
| 6                  |                |   |                   |                    | -                 | 0.0       |
| 8                  |                |   |                   |                    | -                 | 0.0       |
| 10                 |                |   |                   | -                  | 0.0               |           |

**Completion Notes:** EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-159  
**Date Drilled:** 6/29/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE             |             | No Well Installed |
|--------------------|----------------|--|--------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                                     | Sample # Depth     | Blow Counts |                   |
| 0                  |                | Ground Surface   |                    |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>                                      |                    | -           | 0.0               |
|                    |                | <b>SC- (Medium Dense) CLAYEY SAND (moist)</b><br>Brown, fine |                    | -           | 0.0               |
| 2                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine               |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 4                  |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 6                  |                |  | SS-1<br>6.0 - 7.0' | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, fine           |                    | -           | 0.0               |
| 8                  |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 10                 |                |  |                    | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Gray, fine            |                    | -           | 0.0               |
| 12                 |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 14                 |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 16                 |                |  |                    |             |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-160  
**Date Drilled:** 6/29/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE             |             |           |                   |
|--------------------|----------------|---|--------------------|-------------|-----------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments  | Sample #<br>Depth  | Blow Counts | PID (ppm) | No Well Installed |
| 0                  |                | Ground Surface  |                    |             |           |                   |
|                    |                | <b>GRASS / TOP SOIL</b>   |                    | -           | 0.0       |                   |
|                    |                | <b>SC- (Medium Dense) CLAYEY SAND (moist)</b><br>Brown, fine, with concrete, wood, and brick debris |                    | -           | 0.0       |                   |
| 2                  |                |   | SS-1<br>2.0 - 3.0' | -           | 0.0       |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine  |                    | -           | 0.0       |                   |
| 4                  |                |   |                    | -           | 0.0       |                   |
|                    |                |   |                    | -           | 0.0       |                   |
| 6                  |                |   | SS-2<br>6.0 - 7.0' | -           | 0.0       |                   |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, fine  |                    | -           | 0.0       |                   |
| 8                  |                |   |                    | -           | 0.0       |                   |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, fine  |                    | -           | 0.0       |                   |
| 10                 |                |   |                    | -           | 0.0       |                   |
|                    |                |   |                    | -           | 0.0       |                   |
| 12                 |                |   |                    | -           | 0.0       |                   |
|                    |                |   |                    | -           | 0.0       |                   |
| 14                 |                |   |                    | -           | 0.0       |                   |
|                    |                |   |                    | -           | 0.0       |                   |
| 16                 |                |   |                    |             |           |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-161  
**Date Drilled:** 6/27/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE            |                    | No Well Installed |           |
|--------------------|----------------|--|-------------------|--------------------|-------------------|-----------|
| Depth (ft.)        | Boring Profile | Description and Comments                           | Sample #<br>Depth | Blow Counts        |                   | PID (ppm) |
| 0                  |                | Ground Surface                                     |                   |                    |                   |           |
|                    |                | <b>GRASS / TOP SOIL</b>                            |                   | -                  | 0.0               |           |
|                    |                |  |                   | -                  | 0.0               |           |
| 2                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine     |                   | -                  | 0.0               |           |
|                    |                |  |                   | -                  | 0.0               |           |
| 4                  |                |  |                   | SS-1<br>4.0 - 5.0' | -                 | 0.0       |
|                    |                |  |                   |                    | -                 | 0.0       |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, fine |                   |                    | -                 | 0.0       |
| 6                  |                |  |                   |                    | -                 | 0.0       |
| 8                  |                |  |                   |                    | -                 | 0.0       |
| 10                 |                |  |                   | -                  | 0.0               |           |

**Completion Notes:** EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-162  
**Date Drilled:** 6/27/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE            |             |           |                   |
|--------------------|----------------|--|-------------------|-------------|-----------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample #<br>Depth | Blow Counts | PID (ppm) | No Well Installed |
| 0                  |                | Ground Surface   |                   |             |           |                   |
|                    |                | <b>GRASS / TOP SOIL</b>  |                   |             | 0.0       |                   |
|                    |                | <b>SC- (Medium Dense) CLAYEY SAND (moist)</b><br>Dark Brown/Gray, fine |                   | -           | 0.0       |                   |
| 2                  |                |  |                   | -           | 0.0       |                   |
|                    |                |  | SS-1              | -           | 0.0       |                   |
| 4                  |                |  | 3.0 - 4.0'        | -           | 0.0       |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine                  |                   | -           | 0.0       |                   |
| 6                  |                |  |                   | -           | 0.0       |                   |
|                    |                |  |                   | -           | 0.0       |                   |
| 8                  |                |  |                   | -           | 0.0       |                   |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, medium fine              |                   | -           | 0.0       |                   |
| 10                 |                |  |                   | -           | 0.0       |                   |

**Completion Notes:** EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.





# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-163  
**Date Drilled:** 6/22/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE               |             | No Well Installed |
|--------------------|----------------|--|----------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample # Depth       | Blow Counts |                   |
| 0                  |                | Ground Surface   |                      |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>  |                      |             |                   |
|                    |                | <b>SC- (Dense) CLAYEY SAND (moist)</b><br>Brown                          |                      | -           | 0.0               |
| 2                  |                |  |                      | -           | 0.0               |
|                    |                |  |                      | -           | 0.0               |
| 4                  |                |  | SS-1<br>3.0 - 4.0'   | -           | 0.0               |
|                    |                | <b>CL- (Medium Stiff) SANDY CLAY (moist)</b><br>Brown/Gray, trace gravel |                      | -           | 0.0               |
| 6                  |                |  |                      | -           | 0.0               |
|                    |                |  |                      | -           | 0.0               |
| 8                  |                |  |                      | -           | 0.0               |
|                    |                | <b>OH- SANDY CLAY</b><br>Dark Gray, with wood debris, organic            |                      | -           | 0.0               |
| 10                 |                |  |                      | -           | 0.0               |
|                    |                |  |                      | -           | 0.0               |
| 12                 |                |  |                      | -           | 0.0               |
|                    |                |  |                      | -           | 0.0               |
| 14                 |                |  | SS-2<br>13.0 - 14.0' |             | 0.8               |
|                    |                | <b>SC- CLAYEY SAND (moist)</b><br>Dark Gray/Brown, with gravel           |                      |             |                   |
|                    |                | <b>CL- (Medium Soft) SANDY CLAY (moist)</b><br>Gray                      |                      |             | 0.0               |
| 16                 |                |  |                      |             |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

## Boring Log .

**Boring No.:** PSB-164  
**Date Drilled:** 6/22/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE             |             |           |                   |
|--------------------|----------------|---|--------------------|-------------|-----------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments  | Sample #<br>Depth  | Blow Counts | PID (ppm) | No Well Installed |
| 0                  |                | Ground Surface  |                    |             |           |                   |
|                    |                | <b>GRASS / TOP SOIL</b>   |                    |             |           |                   |
|                    |                | <b>SC- (Medium Dense) CLAYEY SAND (moist)</b><br>Brown, fine        |                    | -           | 0.0       |                   |
| 2                  |                | <b>CONCRETE DEBRIS</b>  |                    | -           | 0.0       |                   |
|                    |                | <b>BRICK DEBRIS</b>   |                    | -           | 0.0       |                   |
| 4                  |                | <b>CL- (Medium Stiff) SANDY CLAY (moist)</b><br>Brown, trace gravel | SS-1<br>4.0 - 5.0' | -           | 0.0       |                   |
| 6                  |                | <b>SC- (Medium Dense) CLAYEY SAND (moist)</b><br>Gray, fine         |                    | -           | 0.0       |                   |
| 8                  |                | <b>CL- (Stiff) CLAY (moist)</b><br>Gray, trace gravel               | SS-2<br>7.0 - 8.0' | -           | 0.0       |                   |
| 10                 |                |   |                    | -           | 0.0       |                   |
| 12                 |                |   |                    | -           | 0.0       |                   |
| 14                 |                | <b>OH- (Soft) SILTY CLAY</b><br>Gray, organic                       |                    | -           | 0.8       |                   |
| 16                 |                |   |                    | -           | 0.0       |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001

**Boring No.:** PSB-165

**Project Name:** Vacant Land

**Date Drilled:** 6/22/2016

**Facility ID#:**

**Drill Rig:** 6712 DT/ HA

**Logged By:** KL

**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE             |             | No Well Installed |
|--------------------|----------------|---|--------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments  | Sample #<br>Depth  | Blow Counts |                   |
| 0                  |                | Ground Surface  |                    |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>   |                    |             |                   |
|                    |                | <b>SC- (Dense) CLAYEY SAND (moist)</b><br>Brown                     |                    | -           | 0.0               |
| 2                  |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 4                  |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
|                    |                | <b>BRICK DEBRIS</b>   |                    | -           | 0.0               |
| 6                  |                | <b>CL- (Medium Stiff) SANDY CLAY (moist)</b><br>Brown, trace gravel | SS-1<br>6.0 - 7.0' | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 8                  |                | <b>CL- (Medium Stiff) CLAY (moist)</b><br>Gray, trace gravel        |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 10                 |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 12                 |                | <b>CL- (Soft) SILTY CLAY (moist)</b><br>Gray                        |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 14                 |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 16                 |                |   |                    |             |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-166  
**Date Drilled:** 6/22/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE            |             | No Well Installed |
|--------------------|----------------|--|-------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample #<br>Depth | Blow Counts |                   |
| 0                  |                | Ground Surface   |                   |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>  |                   |             |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine                     |                   | -           | 0.0               |
| 2                  |                |  |                   | -           | 0.0               |
|                    |                |  |                   | -           | 0.0               |
| 4                  |                |  |                   | -           | 0.0               |
|                    |                |  |                   | -           | 0.0               |
| 6                  |                | <b>SC- (Medium Dense) CLAYEY SAND (moist)</b><br>Gray, medium fine |                   | -           | 0.0               |
|                    |                |  | SS-1              |             |                   |
| 8                  |                |  | 7.0 - 8.0'        | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Gray, medium fine           |                   | -           | 0.0               |
| 10                 |                |  |                   | -           | 0.0               |
|                    |                |  |                   |             | 0.0               |
| 12                 |                |  |                   |             | 0.0               |
|                    |                |  |                   |             | 0.0               |
| 14                 |                |  |                   |             | 0.0               |
|                    |                |  |                   |             | 0.0               |
| 16                 |                |  |                   |             |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-167  
**Date Drilled:** 6/22/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE             |             | No Well Installed |
|--------------------|----------------|--|--------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                           | Sample #<br>Depth  | Blow Counts |                   |
| 0                  |                | Ground Surface                                     |                    |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>                            |                    |             |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine     |                    | -           | 0.0               |
| 2                  |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 4                  |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 6                  |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 8                  |                |  | SS-1<br>7.0 - 8.0' | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, fine |                    | -           | 0.0               |
| 10                 |                |  |                    | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Gray, fine  |                    |             | 0.0               |
| 12                 |                |  |                    |             | 0.0               |
|                    |                |  |                    |             | 0.0               |
| 14                 |                |  |                    |             | 0.0               |
|                    |                |  |                    |             | 0.0               |
| 16                 |                |  |                    |             |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-168  
**Date Drilled:** 6/27/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE            |             | No Well Installed |
|--------------------|----------------|--|-------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                                     | Sample #<br>Depth | Blow Counts |                   |
| 0                  |                | Ground Surface   |                   |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>                                      |                   |             |                   |
|                    |                | <b>SC- (Medium Dense) CLAYEY SAND (moist)</b><br>Brown, fine |                   | -           | 0.0               |
|                    |                |  |                   | -           | 0.0               |
| 2                  |                |  | SS-1              | -           | 0.0               |
|                    |                |  | 2.0 - 3.0'        | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine        |                   | -           | 0.0               |
| 4                  |                |  |                   | -           | 0.0               |
|                    |                |  |                   | -           | 0.0               |
|                    |                |  |                   | -           | 0.0               |
| 6                  |                |  |                   | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, medium fine    |                   | -           | 0.0               |
|                    |                |  |                   | -           | 0.0               |
| 8                  |                |  |                   |             |                   |

**Completion Notes:** EOB @ 8' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-169  
**Date Drilled:** 6/27/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE             |             |           |                   |
|--------------------|----------------|--|--------------------|-------------|-----------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample #<br>Depth  | Blow Counts | PID (ppm) | No Well Installed |
| 0                  |                | Ground Surface   |                    |             |           |                   |
|                    |                | <b>GRASS / TOP SOIL</b>  |                    |             |           |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine, with glass, brick, and metal debris |                    | -           | 0.0       |                   |
| 2                  |                |  | SS-1<br>2.0 - 3.0' | -           | 0.0       |                   |
|                    |                | <b>SC- CLAYEY SAND (moist)</b><br>Dark Gray, fine, with glass debris                       |                    | -           | 0.0       |                   |
| 4                  |                |  | SS-2<br>5.0 - 6.0' | -           | 0.0       |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine                                      |                    | -           | 0.0       |                   |
| 6                  |                |  |                    | -           | 0.0       |                   |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, medium fine                                  |                    | -           | 0.0       |                   |
| 8                  |                |  |                    | -           | 0.0       |                   |
|                    |                |  |                    | -           | 0.0       |                   |
| 10                 |                |  |                    | -           | 0.0       |                   |

**Completion Notes:** EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-170  
**Date Drilled:** 6/27/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE             |             | No Well Installed |
|--------------------|----------------|--|--------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample #<br>Depth  | Blow Counts |                   |
| 0                  |                | Ground Surface   |                    |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>  |                    |             |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine, with wood, brick, and glass debris |                    | -           | 0.0               |
| 2                  |                |  | SS-1<br>2.0 - 3.0' | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine                                     |                    | -           | 0.0               |
| 4                  |                |  |                    | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine                                     |                    | -           | 0.0               |
| 6                  |                |  | SS-2<br>6.0 - 7.0' | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Gray, fine                                  |                    | -           | 0.0               |
| 8                  |                |  |                    | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Gray, fine                                  |                    | -           | 0.0               |
| 10                 |                |  |                    | -           | 0.0               |

**Completion Notes:** EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.







# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-171  
**Date Drilled:** 6/27/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |  |  | SAMPLE            |             | No Well Installed |
|--------------------|--|--|-------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile   | Description and Comments   | Sample #<br>Depth | Blow Counts |                   |
| 0                  |  | Ground Surface   |                   |             |                   |
|                    |   | <b>GRASS / TOP SOIL</b>  |                   |             |                   |
|                    |  | <b>GW- (Loose) GRAVELLY SAND</b><br>Dark Brown, medium coarse, with glass and brick debris |                   | -           | 0.0               |
|                    |  |  |                   | -           | 0.0               |
| 2                  |  |  | SS-1              |             |                   |
|                    |  |  | 2.0 - 3.0'        |             |                   |
|                    |  | <b>REFUSAL @ 3' bgs</b>  |                   |             |                   |
| 4                  |  |  |                   |             |                   |

**Completion Notes:** EOB @ 3' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-172  
**Date Drilled:** 6/27/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE             |             |           |                   |
|--------------------|----------------|---|--------------------|-------------|-----------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments  | Sample #<br>Depth  | Blow Counts | PID (ppm) | No Well Installed |
| 0                  |                | Ground Surface  |                    |             |           |                   |
|                    |                | <b>GRASS / TOP SOIL</b>   |                    |             | 0.0       |                   |
|                    |                | <b>GW- (Loose) GRAVELLY SAND (moist)</b><br>Dark Brown/Gray, medium coarse, with glass debris | SS-1<br>1.0 - 2.0' | -           | 0.0       |                   |
| 2                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine  |                    | -           | 0.0       |                   |
|                    |                |   |                    | -           | 0.0       |                   |
| 4                  |                |   |                    | -           | 0.0       |                   |
|                    |                |   | SS-2<br>5.0 - 6.0' | -           | 0.0       |                   |
| 6                  |                | <b>SP- (Loose) SAND (saturated)</b><br>Gray, fine   |                    | -           | 0.0       |                   |
|                    |                |   |                    | -           | 0.0       |                   |
| 8                  |                |   |                    | -           | 0.0       |                   |
|                    |                |   |                    | -           | 0.0       |                   |
| 10                 |                |   |                    | -           | 0.0       |                   |

**Completion Notes:** EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-173  
**Date Drilled:** 6/27/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE             |             | No Well Installed |
|--------------------|----------------|--|--------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                           | Sample #<br>Depth  | Blow Counts |                   |
| 0                  |                | Ground Surface                                     |                    |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>                            |                    | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine     |                    | -           | 0.0               |
| 2                  |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 4                  |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 6                  |                |  | SS-1<br>5.0 - 6.0' | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, fine |                    | -           | 0.0               |
| 8                  |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 10                 |                |  |                    | -           | 0.0               |

**Completion Notes:** EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001

**Boring No.:** PSB-174

**Project Name:** Vacant Land

**Date Drilled:** 6/27/2016

**Facility ID#:**

**Drill Rig:** 6712 DT/ HA

**Logged By:** KL

**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE             |             | No Well Installed |
|--------------------|----------------|---|--------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                                | Sample #<br>Depth  | Blow Counts |                   |
| 0                  |                | Ground Surface  |                    |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>                                 |                    |             |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine          |                    | -           | 0.0               |
| 2                  |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 4                  |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 6                  |                |   | SS-1<br>5.0 - 6.0' | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, fine      |                    | -           | 0.0               |
| 8                  |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 10                 |                |   |                    | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown/Gray, fine |                    | -           | 0.0               |

**Completion Notes:** EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.



- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-175  
**Date Drilled:** 6/27/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |  |   | SAMPLE            |             | No Well Installed |
|--------------------|--|---|-------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile   | Description and Comments  | Sample #<br>Depth | Blow Counts |                   |
| 0                  |  | Ground Surface  |                   |             |                   |
|                    |   | <b>GRASS / TOP SOIL</b>   |                   |             |                   |
|                    |  | <b>GW- (Loose) GRAVELLY SAND</b><br>Dark Brown, medium coarse, with brick and concrete debris |                   | -           | 0.0               |
|                    |  |   |                   | -           | 0.0               |
| 2                  |  |   | SS-1              |             |                   |
|                    |  |   | 2.0 - 3.0'        |             |                   |
|                    |  | <b>REFUSAL @ 3' bgs</b>   |                   |             |                   |
| 4                  |  |   |                   |             |                   |

**Completion Notes:** EOB @ 3' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-176  
**Date Drilled:** 6/22/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE             |             | No Well Installed |
|--------------------|----------------|---|--------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                                  | Sample #<br>Depth  | Blow Counts |                   |
| 0                  |                | Ground Surface  |                    |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>                                   |                    |             |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine     |                    | -           | 0.0               |
| 2                  |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 4                  |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 6                  |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 8                  |                |   | SS-1<br>7.0 - 8.0' | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, medium fine |                    | -           | 0.0               |
| 10                 |                |   |                    | -           | 0.0               |
|                    |                |   |                    |             | 0.0               |
| 12                 |                |   |                    |             | 0.0               |
|                    |                |   |                    |             | 0.0               |
| 14                 |                | <b>SP- (Loose) SAND (saturated)</b><br>Gray, medium fine  |                    |             | 0.0               |
|                    |                |   |                    |             | 0.0               |
| 16                 |                |   |                    |             |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-177  
**Date Drilled:** 6/22/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE         |             | No Well Installed |
|--------------------|----------------|---|----------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments  | Sample # Depth | Blow Counts |                   |
| 0                  |                | Ground Surface  |                |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>   |                |             |                   |
|                    |                | <b>SC- (Dense) CLAYEY SAND (moist)</b><br>Brown/Gray, with gravel |                | -           | 0.0               |
|                    |                |   |                | -           | 0.0               |
| 2                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine             |                | -           | 0.0               |
|                    |                |   |                | -           | 0.0               |
|                    |                |   |                | -           | 0.0               |
|                    |                |   |                | -           | 0.0               |
|                    |                |   |                | -           | 0.0               |
|                    |                |   | SS-1           | -           | 0.0               |
|                    |                |   | 5.5 - 6.5'     | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, medium fine         |                | -           | 0.0               |
|                    |                |   |                | -           | 0.0               |
| 8                  |                |   |                |             |                   |

**Completion Notes:** EOB @ 8' bgs. Hole filled with soil cuttings and bentonite.  
 1. The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.  
 2. Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-178  
**Date Drilled:** 6/27/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE            |             | No Well Installed |
|--------------------|----------------|--|-------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample #<br>Depth | Blow Counts |                   |
| 0                  |                | Ground Surface   |                   |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>  |                   | -           | 0.0               |
|                    |                | <b>SC- CLAYEY SAND (moist)</b><br>Dark Brown/Gray, fine, with gravel |                   | -           | 0.0               |
| 2                  |                |  |                   | -           | 0.0               |
|                    |                |  | SS-1              | -           | 0.0               |
| 4                  |                |  | 3.0 - 4.0'        |             |                   |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, medium fine            |                   | -           | 0.0               |
| 6                  |                |  |                   | -           | 0.0               |
|                    |                |  |                   | -           | 0.0               |
| 8                  |                |  |                   | -           | 0.0               |
|                    |                |  |                   | -           | 0.0               |
| 10                 |                |  |                   | -           | 0.0               |

**Completion Notes:** EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.





# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-179  
**Date Drilled:** 6/27/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE             |             | No Well Installed |
|--------------------|----------------|--|--------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                           | Sample # Depth     | Blow Counts |                   |
| 0                  |                | Ground Surface                                     |                    |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>                            |                    | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine     |                    | -           | 0.0               |
| 2                  |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 4                  |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 6                  |                |  | SS-1<br>5.0 - 6.0' | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, fine |                    | -           | 0.0               |
| 8                  |                |  |                    | -           | 0.0               |
|                    |                |  |                    | -           | 0.0               |
| 10                 |                |  |                    | -           | 0.0               |

**Completion Notes:** EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-180  
**Date Drilled:** 6/27/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE            |             | No Well Installed |
|--------------------|----------------|---|-------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                                  | Sample #<br>Depth | Blow Counts |                   |
| 0                  |                | Ground Surface  |                   |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>                                   |                   |             |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine            |                   | -           | 0.0               |
| 2                  |                |   |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
| 4                  |                |   |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
| 6                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine     | SS-1              | -           | 0.0               |
|                    |                |   | 5.5 - 6.5'        | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, medium fine |                   | -           | 0.0               |
| 8                  |                |   |                   | -           | 0.0               |
|                    |                |   |                   | -           | 0.0               |
| 10                 |                |   |                   | -           | 0.0               |

**Completion Notes:** EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-181  
**Date Drilled:** 6/22/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE             |             |           |                   |
|--------------------|----------------|---|--------------------|-------------|-----------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments  | Sample #<br>Depth  | Blow Counts | PID (ppm) | No Well Installed |
| 0                  |                | Ground Surface  |                    |             |           |                   |
|                    |                | <b>GRASS / TOP SOIL</b>   |                    |             |           |                   |
|                    |                | <b>SC- (Dense) CLAYEY SAND (moist)</b><br>Brown                       |                    | -           | 0.0       |                   |
| 2                  |                |   |                    | -           | 0.0       |                   |
|                    |                |   |                    | -           | 0.0       |                   |
| 4                  |                |   |                    | -           | 0.0       |                   |
|                    |                |   | SS-1<br>4.0 - 5.0' | -           | 0.0       |                   |
|                    |                | <b>CL- (Soft) SANDY CLAY (moist)</b><br>Gray/Dark Brown, trace gravel |                    | -           | 0.0       |                   |
| 6                  |                |   |                    | -           | 0.0       |                   |
|                    |                |   | SS-2<br>7.0 - 8.0' | -           | 0.0       |                   |
| 8                  |                | <b>SP- (Loose) SAND (saturated)</b><br>Gray, fine                     |                    | -           | 0.0       |                   |
|                    |                |   |                    | -           | 0.0       |                   |
| 10                 |                |   |                    |             | 0.0       |                   |
|                    |                |   |                    |             | 0.0       |                   |
| 12                 |                |   |                    |             | 0.0       |                   |
|                    |                |   |                    |             | 0.8       |                   |
| 14                 |                |   |                    |             | 0.0       |                   |
|                    |                |   |                    |             |           |                   |
| 16                 |                |   |                    |             |           |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-182  
**Date Drilled:** 6/22/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE             |             |           |                   |
|--------------------|----------------|--|--------------------|-------------|-----------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample #<br>Depth  | Blow Counts | PID (ppm) | No Well Installed |
| 0                  |                | Ground Surface   |                    |             |           |                   |
|                    |                | <b>GRASS / TOP SOIL</b>  |                    |             |           |                   |
|                    |                | <b>SC- (Dense) CLAYEY SAND (moist)</b><br>Brown                          |                    | -           | 0.0       |                   |
| 2                  |                |  |                    | -           | 0.0       |                   |
|                    |                | <b>BRICK DEBRIS</b>  |                    | -           | 0.0       |                   |
| 4                  |                | <b>CL- (Medium Stiff) SANDY CLAY (moist)</b><br>Brown/Gray, trace gravel | SS-1<br>4.0 - 5.0' | -           | 0.0       |                   |
| 6                  |                |  |                    | -           | 0.0       |                   |
|                    |                | <b>OH- (Soft) SILTY CLAY (saturated)</b><br>Organic                      |                    | -           | 0.0       |                   |
| 8                  |                |  |                    | -           | 0.0       |                   |
| 10                 |                |  |                    | -           | 0.0       |                   |
|                    |                | <b>CL- (Medium Stiff) CLAY (moist)</b><br>Gray, trace gravel             |                    |             | 0.0       |                   |
| 12                 |                |  |                    |             | 0.0       |                   |
| 14                 |                |  |                    |             | 0.0       |                   |
| 16                 |                |  |                    |             | 0.0       |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-183  
**Date Drilled:** 6/22/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE             |             | No Well Installed |
|--------------------|----------------|---|--------------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments  | Sample #<br>Depth  | Blow Counts |                   |
| 0                  |                | Ground Surface  |                    |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>   |                    |             |                   |
|                    |                | <b>SC- (Dense) CLAYEY SAND (moist)</b><br>Brown, fine, trace brick debris |                    | -           | 0.0               |
| 2                  |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 4                  |                |   | SS-1<br>3.0 - 4.0' | -           | 0.0               |
|                    |                | <b>CL- (Stiff) SANDY CLAY (moist)</b><br>Brown, trace gravel              |                    | -           | 0.0               |
| 6                  |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 8                  |                |   |                    | -           | 0.0               |
|                    |                | <b>CL- (Medium Stiff) SILTY CLAY (moist)</b><br>Brown, trace gravel       |                    | -           | 0.0               |
| 10                 |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 12                 |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 14                 |                |   |                    | -           | 0.0               |
|                    |                |   |                    | -           | 0.0               |
| 16                 |                |   |                    |             |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-184  
**Date Drilled:** 6/22/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |  | SAMPLE             |             |           |                   |
|--------------------|----------------|--|--------------------|-------------|-----------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments   | Sample #<br>Depth  | Blow Counts | PID (ppm) | No Well Installed |
| 0                  |                | Ground Surface   |                    |             |           |                   |
|                    |                | <b>GRASS / TOP SOIL</b>  |                    |             |           |                   |
|                    |                | <b>SC- (Dense) CLAYEY SAND (moist)</b><br>Brown                          |                    | -           | 0.0       |                   |
| 2                  |                |  |                    | -           | 0.0       |                   |
|                    |                | <b>CONCRETE DEBRIS</b>   |                    | -           | 0.0       |                   |
| 4                  |                | <b>SC- (Medium Dense) CLAYEY SAND (moist)</b><br>Brown/Gray, with gravel | SS-1<br>4.0 - 5.0' | -           | 0.0       |                   |
|                    |                | <b>CL- (Stiff) CLAY (moist)</b><br>Brown/Gray, trace gravel              |                    | -           | 0.0       |                   |
| 6                  |                |  |                    | -           | 0.0       |                   |
|                    |                | <b>CL- (Medium Soft) SILTY CLAY (moist)</b><br>Gray/Brown, trace gravel  |                    | -           | 0.0       |                   |
| 8                  |                |  |                    | -           | 0.0       |                   |
|                    |                |  |                    | -           | 0.0       |                   |
| 10                 |                |  |                    | -           | 0.0       |                   |
|                    |                |  |                    | -           | 0.0       |                   |
| 12                 |                |  |                    | -           | 0.0       |                   |
|                    |                |  |                    | -           | 0.0       |                   |
| 14                 |                |  |                    | -           | 0.0       |                   |
|                    |                |  |                    | -           | 0.0       |                   |
| 16                 |                |  |                    |             |           |                   |

**Completion Notes:** EOB @ 15' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.



# Boring Log .

**Project No.:** 01-6124-3-001  
**Project Name:** Vacant Land  
**Facility ID#:**  
**Logged By:** KL

**Boring No.:** PSB-185  
**Date Drilled:** 6/27/2016  
**Drill Rig:** 6712 DT/ HA  
**Sampling Method:** 2 1/8" MC / GRAB

| SUBSURFACE PROFILE |                |   | SAMPLE         |             | No Well Installed |
|--------------------|----------------|---|----------------|-------------|-------------------|
| Depth (ft.)        | Boring Profile | Description and Comments                                  | Sample # Depth | Blow Counts |                   |
| 0                  |                | Ground Surface  |                |             |                   |
|                    |                | <b>GRASS / TOP SOIL</b>                                   |                |             |                   |
|                    |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, fine            |                | -           | 0.0               |
| 2                  |                |   |                | -           | 0.0               |
|                    |                |   |                | -           | 0.0               |
| 4                  |                |   |                | -           | 0.0               |
|                    |                |   |                | -           | 0.0               |
| 6                  |                | <b>SP- (Loose) SAND (moist)</b><br>Brown, medium fine     | SS-1           | -           | 0.0               |
|                    |                |   | 5.5 - 6.5'     | -           | 0.0               |
|                    |                | <b>SP- (Loose) SAND (saturated)</b><br>Brown, medium fine |                | -           | 0.0               |
| 8                  |                |   |                | -           | 0.0               |
|                    |                |   |                | -           | 0.0               |
| 10                 |                |   |                | -           | 0.0               |

**Completion Notes:** EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.

- The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
- Boring backfilled with natural soils unless otherwise noted.

## **APPENDIX D**



July 24, 2019

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## ATC Group Services - Novi, MI

Sample Delivery Group: L1120049  
Samples Received: 07/17/2019  
Project Number: NPJBD19002  
Description: Donaldson/Ferndale Soil Gas

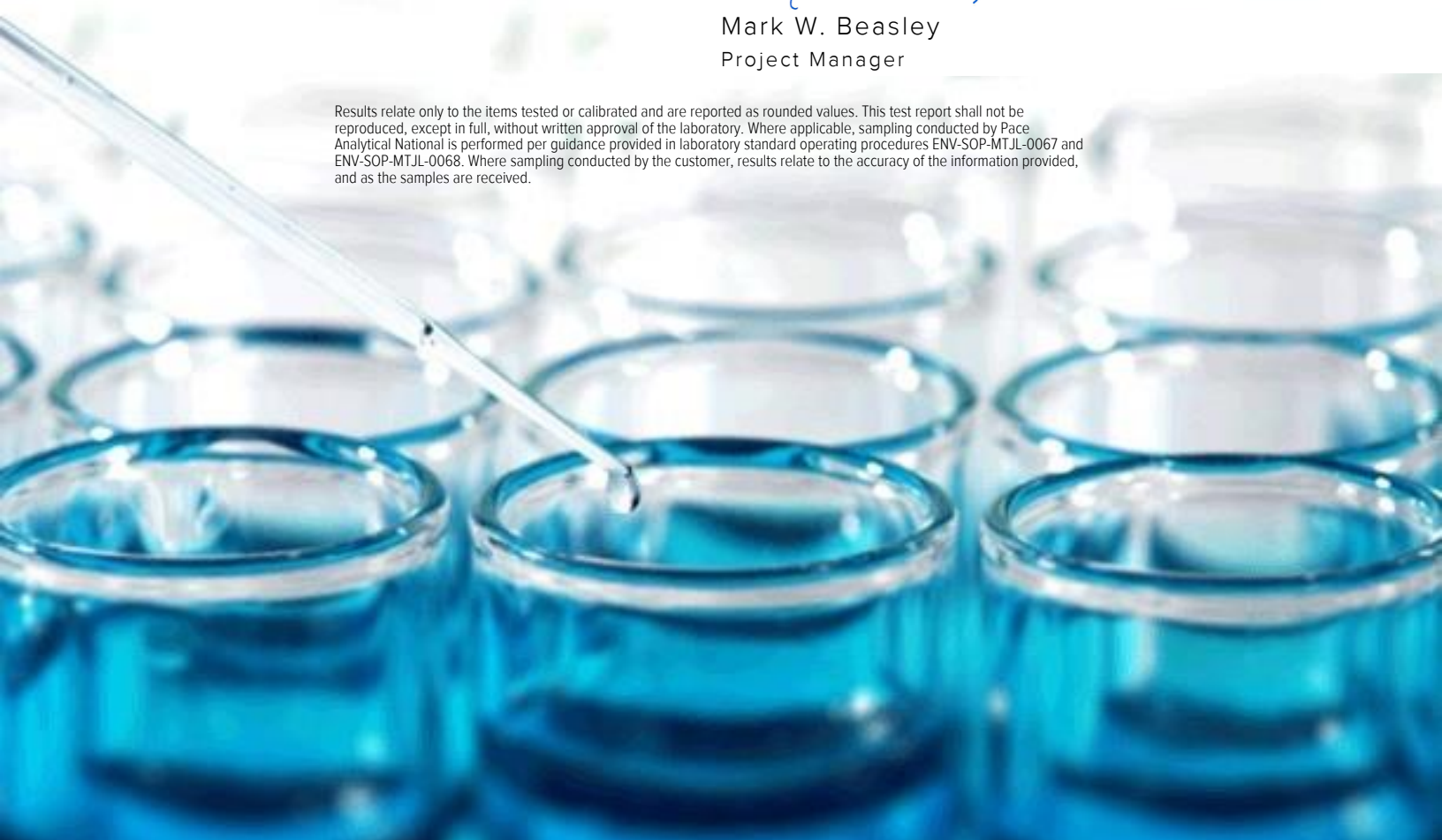
Report To: Gerard DeBusschere  
46555 Humboldt Drive Suite 100  
Novi, MI 48377

Entire Report Reviewed By:











Mark W. Beasley  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.





|  |           |   |
|--|-----------|---|
| <b>Cp: Cover Page</b>                              | <b>1</b>  |  |
| <b>Tc: Table of Contents</b>                       | <b>2</b>  |   |
| <b>Ss: Sample Summary</b>                          | <b>3</b>  |  |
| <b>Cn: Case Narrative</b>                          | <b>5</b>  |   |
| <b>Sr: Sample Results</b>                          | <b>6</b>  |  |
| E-2 4-5 L1120049-01                                | 6         |   |
| E-1 4-5 L1120049-02                                | 8         |  |
| D-1 4-5 L1120049-03                                | 10        |  |
| D-2 4-5 L1120049-04                                | 12        |   |
| C-1 4-5 L1120049-05                                | 14        |  |
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| A-2 4-5 L1120049-09                                | 22        |   |
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| <b>Qc: Quality Control Summary</b>                 | <b>26</b> |   |
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| Mercury by Method 7471A                            | 28        |   |
| Volatile Organic Compounds (GC/MS) by Method 8260B | 29        |   |
| <b>Gl: Glossary of Terms</b>                       | <b>33</b> |   |
| <b>Al: Accreditations &amp; Locations</b>          | <b>34</b> |   |
| <b>Sc: Sample Chain of Custody</b>                 | <b>35</b> |   |

# SAMPLE SUMMARY



## E-2 4-5 L1120049-01 Solid

|  |           |          |                       | Collected by       | Collected date/time | Received date/time |
|--|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|  |           |          |                       | IA                 | 07/12/19 11:57      | 07/17/19 08:45     |
| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Total Solids by Method 2540 G-2011                 | WG1315928 | 1        | 07/23/19 22:36        | 07/23/19 22:48     | KBC                 | Mt. Juliet, TN     |
| Mercury by Method 7471A                            | WG1315509 | 1        | 07/22/19 15:53        | 07/22/19 20:18     | TCT                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1315838 | 29.25    | 07/12/19 11:57        | 07/23/19 16:42     | BMB                 | Mt. Juliet, TN     |

- 1  
Cp
- 2  
Tc
- 3  
Ss
- 4  
Cn
- 5  
Sr
- 6  
Qc
- 7  
Gl
- 8  
Al
- 9  
Sc

## E-1 4-5 L1120049-02 Solid

|  |           |          |                       | Collected by       | Collected date/time | Received date/time |
|--|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|  |           |          |                       | IA                 | 07/12/19 12:00      | 07/17/19 08:45     |
| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Total Solids by Method 2540 G-2011                 | WG1315928 | 1        | 07/23/19 22:36        | 07/23/19 22:48     | KBC                 | Mt. Juliet, TN     |
| Mercury by Method 7471A                            | WG1315509 | 1        | 07/22/19 15:53        | 07/22/19 20:20     | TCT                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1315838 | 25       | 07/12/19 12:00        | 07/23/19 17:02     | BMB                 | Mt. Juliet, TN     |

## D-1 4-5 L1120049-03 Solid

|  |           |          |                       | Collected by       | Collected date/time | Received date/time |
|--|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|  |           |          |                       | IA                 | 07/12/19 12:02      | 07/17/19 08:45     |
| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Total Solids by Method 2540 G-2011                 | WG1315928 | 1        | 07/23/19 22:36        | 07/23/19 22:48     | KBC                 | Mt. Juliet, TN     |
| Mercury by Method 7471A                            | WG1315509 | 1        | 07/22/19 15:53        | 07/22/19 20:22     | TCT                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1315838 | 25       | 07/12/19 12:02        | 07/23/19 17:23     | BMB                 | Mt. Juliet, TN     |

## D-2 4-5 L1120049-04 Solid

|  |           |          |                       | Collected by       | Collected date/time | Received date/time |
|--|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|  |           |          |                       | IA                 | 07/12/19 12:05      | 07/17/19 08:45     |
| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Total Solids by Method 2540 G-2011                 | WG1315928 | 1        | 07/23/19 22:36        | 07/23/19 22:48     | KBC                 | Mt. Juliet, TN     |
| Mercury by Method 7471A                            | WG1315509 | 1        | 07/22/19 15:53        | 07/22/19 20:24     | TCT                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1315838 | 25       | 07/12/19 12:05        | 07/23/19 17:43     | BMB                 | Mt. Juliet, TN     |

## C-1 4-5 L1120049-05 Solid

|  |           |          |                       | Collected by       | Collected date/time | Received date/time |
|--|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|  |           |          |                       | IA                 | 07/12/19 12:15      | 07/17/19 08:45     |
| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Total Solids by Method 2540 G-2011                 | WG1315928 | 1        | 07/23/19 22:36        | 07/23/19 22:48     | KBC                 | Mt. Juliet, TN     |
| Mercury by Method 7471A                            | WG1315509 | 1        | 07/22/19 15:53        | 07/22/19 20:27     | TCT                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1315838 | 25.5     | 07/12/19 12:15        | 07/23/19 18:03     | BMB                 | Mt. Juliet, TN     |

## C-2 4-5 L1120049-06 Solid

|  |           |          |                       | Collected by       | Collected date/time | Received date/time |
|--|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|  |           |          |                       | IA                 | 07/12/19 12:20      | 07/17/19 08:45     |
| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Total Solids by Method 2540 G-2011                 | WG1315928 | 1        | 07/23/19 22:36        | 07/23/19 22:48     | KBC                 | Mt. Juliet, TN     |
| Mercury by Method 7471A                            | WG1315509 | 1        | 07/22/19 15:53        | 07/22/19 20:29     | TCT                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1315838 | 25       | 07/12/19 12:20        | 07/23/19 18:23     | BMB                 | Mt. Juliet, TN     |

# SAMPLE SUMMARY

## B-1 4-5 L1120049-07 Solid

|  |           |          | Collected by<br>IA    | Collected date/time<br>07/12/19 12:42 | Received date/time<br>07/17/19 08:45 |
|--|-----------|----------|-----------------------|---------------------------------------|--------------------------------------|
| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time                    | Analyst Location                     |
| Total Solids by Method 2540 G-2011                 | WG1315928 | 1        | 07/23/19 22:36        | 07/23/19 22:48                        | KBC Mt. Juliet, TN                   |
| Mercury by Method 7471A                            | WG1315509 | 1        | 07/22/19 15:53        | 07/22/19 20:31                        | TCT Mt. Juliet, TN                   |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1315838 | 25.5     | 07/12/19 12:42        | 07/23/19 18:44                        | BMB Mt. Juliet, TN                   |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

## A-1 4-5 L1120049-08 Solid

|  |           |          | Collected by<br>IA    | Collected date/time<br>07/12/19 12:47 | Received date/time<br>07/17/19 08:45 |
|--|-----------|----------|-----------------------|---------------------------------------|--------------------------------------|
| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time                    | Analyst Location                     |
| Total Solids by Method 2540 G-2011                 | WG1315928 | 1        | 07/23/19 22:36        | 07/23/19 22:48                        | KBC Mt. Juliet, TN                   |
| Mercury by Method 7471A                            | WG1315509 | 1        | 07/22/19 15:53        | 07/22/19 20:33                        | TCT Mt. Juliet, TN                   |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1315838 | 27.25    | 07/12/19 12:47        | 07/23/19 19:04                        | BMB Mt. Juliet, TN                   |

## A-2 4-5 L1120049-09 Solid

|  |           |          | Collected by<br>IA    | Collected date/time<br>07/12/19 12:52 | Received date/time<br>07/17/19 08:45 |
|--|-----------|----------|-----------------------|---------------------------------------|--------------------------------------|
| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time                    | Analyst Location                     |
| Total Solids by Method 2540 G-2011                 | WG1315928 | 1        | 07/23/19 22:36        | 07/23/19 22:48                        | KBC Mt. Juliet, TN                   |
| Mercury by Method 7471A                            | WG1315509 | 1        | 07/22/19 15:53        | 07/22/19 20:35                        | TCT Mt. Juliet, TN                   |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1315838 | 25       | 07/12/19 12:52        | 07/23/19 19:25                        | BMB Mt. Juliet, TN                   |

## B-2 4-5 L1120049-10 Solid

|  |           |          | Collected by<br>IA    | Collected date/time<br>07/12/19 14:10 | Received date/time<br>07/17/19 08:45 |
|--|-----------|----------|-----------------------|---------------------------------------|--------------------------------------|
| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time                    | Analyst Location                     |
| Total Solids by Method 2540 G-2011                 | WG1315929 | 1        | 07/23/19 22:27        | 07/23/19 22:42                        | KBC Mt. Juliet, TN                   |
| Mercury by Method 7471A                            | WG1315509 | 1        | 07/22/19 15:53        | 07/22/19 20:38                        | TCT Mt. Juliet, TN                   |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1315838 | 27.5     | 07/12/19 14:10        | 07/23/19 19:46                        | BMB Mt. Juliet, TN                   |



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Mark W. Beasley  
Project Manager

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 07/12/19 11:57

L1120049

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 82.9   |           | 1        | 07/23/2019 22:48 | <a href="#">WG1315928</a> |

## Mercury by Method 7471A

| Analyte | Result | Qualifier | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|----------|------------------|---------------------------|
|         | ug/kg  |           | ug/kg |          | date / time      |                           |
| Mercury | 22.1   | <u>B</u>  | 20.0  | 1        | 07/22/2019 20:18 | <a href="#">WG1315509</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                     | Result | Qualifier | RDL   | Dilution | Analysis         | Batch                     |
|-----------------------------|--------|-----------|-------|----------|------------------|---------------------------|
|                             | ug/kg  |           | ug/kg |          | date / time      |                           |
| Acetone                     | ND     | <u>J3</u> | 731   | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| Acrylonitrile               | ND     |           | 366   | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| Benzene                     | ND     |           | 29.3  | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| Bromobenzene                | ND     |           | 366   | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| Bromodichloromethane        | ND     |           | 73.1  | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| Bromoform                   | ND     |           | 731   | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| Bromomethane                | ND     |           | 366   | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| n-Butylbenzene              | ND     |           | 366   | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| sec-Butylbenzene            | ND     |           | 366   | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| tert-Butylbenzene           | ND     | <u>J3</u> | 146   | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| Carbon tetrachloride        | ND     |           | 146   | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| Chlorobenzene               | ND     |           | 73.1  | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| Chlorodibromomethane        | ND     |           | 73.1  | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| Chloroethane                | ND     |           | 146   | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| Chloroform                  | ND     |           | 73.1  | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| Chloromethane               | ND     |           | 366   | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| 2-Chlorotoluene             | ND     |           | 73.1  | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| 4-Chlorotoluene             | ND     |           | 146   | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 731   | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| 1,2-Dibromoethane           | ND     |           | 73.1  | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| Dibromomethane              | ND     |           | 146   | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| 1,2-Dichlorobenzene         | ND     |           | 146   | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| 1,3-Dichlorobenzene         | ND     |           | 146   | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| 1,4-Dichlorobenzene         | ND     | <u>J4</u> | 146   | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| Dichlorodifluoromethane     | ND     |           | 73.1  | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| 1,1-Dichloroethane          | ND     |           | 73.1  | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| 1,2-Dichloroethane          | ND     |           | 73.1  | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| 1,1-Dichloroethene          | ND     |           | 73.1  | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| cis-1,2-Dichloroethene      | ND     |           | 73.1  | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| trans-1,2-Dichloroethene    | ND     |           | 146   | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| 1,2-Dichloropropane         | ND     |           | 146   | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| 1,1-Dichloropropene         | ND     |           | 73.1  | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| 1,3-Dichloropropane         | ND     |           | 146   | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| cis-1,3-Dichloropropene     | ND     |           | 73.1  | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| trans-1,3-Dichloropropene   | ND     |           | 146   | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| 2,2-Dichloropropane         | ND     |           | 73.1  | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| Di-isopropyl ether          | ND     |           | 29.3  | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| Ethylbenzene                | ND     |           | 73.1  | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| Hexachloro-1,3-butadiene    | ND     |           | 731   | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| Isopropylbenzene            | ND     |           | 73.1  | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| p-Isopropyltoluene          | ND     |           | 146   | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| 2-Butanone (MEK)            | ND     |           | 731   | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| Methylene Chloride          | ND     |           | 731   | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| 1-Methylnaphthalene         | ND     | <u>J3</u> | 731   | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |
| 2-Methylnaphthalene         | ND     | <u>J3</u> | 731   | 29.25    | 07/23/2019 16:42 | <a href="#">WG1315838</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 07/12/19 11:57

L1120049

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                        | Result<br>ug/kg | Qualifier | RDL<br>ug/kg | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| 4-Methyl-2-pentanone (MIBK)    | ND              |           | 731          | 29.25    | 07/23/2019 16:42        | <a href="#">WG1315838</a> |
| Methyl tert-butyl ether        | ND              |           | 29.3         | 29.25    | 07/23/2019 16:42        | <a href="#">WG1315838</a> |
| Naphthalene                    | ND              | <u>J3</u> | 366          | 29.25    | 07/23/2019 16:42        | <a href="#">WG1315838</a> |
| n-Propylbenzene                | ND              |           | 146          | 29.25    | 07/23/2019 16:42        | <a href="#">WG1315838</a> |
| Styrene                        | ND              |           | 366          | 29.25    | 07/23/2019 16:42        | <a href="#">WG1315838</a> |
| 1,1,1,2-Tetrachloroethane      | ND              |           | 73.1         | 29.25    | 07/23/2019 16:42        | <a href="#">WG1315838</a> |
| 1,1,2,2-Tetrachloroethane      | ND              |           | 73.1         | 29.25    | 07/23/2019 16:42        | <a href="#">WG1315838</a> |
| 1,1,2-Trichlorotrifluoroethane | ND              |           | 73.1         | 29.25    | 07/23/2019 16:42        | <a href="#">WG1315838</a> |
| Tetrachloroethene              | ND              |           | 73.1         | 29.25    | 07/23/2019 16:42        | <a href="#">WG1315838</a> |
| Toluene                        | ND              |           | 146          | 29.25    | 07/23/2019 16:42        | <a href="#">WG1315838</a> |
| 1,2,3-Trichlorobenzene         | ND              | <u>J3</u> | 73.1         | 29.25    | 07/23/2019 16:42        | <a href="#">WG1315838</a> |
| 1,2,4-Trichlorobenzene         | ND              | <u>J3</u> | 366          | 29.25    | 07/23/2019 16:42        | <a href="#">WG1315838</a> |
| 1,1,1-Trichloroethane          | ND              |           | 73.1         | 29.25    | 07/23/2019 16:42        | <a href="#">WG1315838</a> |
| 1,1,2-Trichloroethane          | ND              |           | 73.1         | 29.25    | 07/23/2019 16:42        | <a href="#">WG1315838</a> |
| Trichloroethene                | ND              |           | 29.3         | 29.25    | 07/23/2019 16:42        | <a href="#">WG1315838</a> |
| Trichlorofluoromethane         | ND              |           | 73.1         | 29.25    | 07/23/2019 16:42        | <a href="#">WG1315838</a> |
| 1,2,3-Trichloropropane         | ND              |           | 366          | 29.25    | 07/23/2019 16:42        | <a href="#">WG1315838</a> |
| 1,2,4-Trimethylbenzene         | ND              |           | 146          | 29.25    | 07/23/2019 16:42        | <a href="#">WG1315838</a> |
| 1,2,3-Trimethylbenzene         | ND              |           | 146          | 29.25    | 07/23/2019 16:42        | <a href="#">WG1315838</a> |
| 1,3,5-Trimethylbenzene         | ND              |           | 146          | 29.25    | 07/23/2019 16:42        | <a href="#">WG1315838</a> |
| Vinyl chloride                 | ND              |           | 73.1         | 29.25    | 07/23/2019 16:42        | <a href="#">WG1315838</a> |
| Xylenes, Total                 | ND              | <u>J4</u> | 190          | 29.25    | 07/23/2019 16:42        | <a href="#">WG1315838</a> |
| (S) Toluene-d8                 | 109             |           | 75.0-131     |          | 07/23/2019 16:42        | <a href="#">WG1315838</a> |
| (S) 4-Bromofluorobenzene       | 103             |           | 67.0-138     |          | 07/23/2019 16:42        | <a href="#">WG1315838</a> |
| (S) 1,2-Dichloroethane-d4      | 102             |           | 70.0-130     |          | 07/23/2019 16:42        | <a href="#">WG1315838</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 86.8   |           | 1        | 07/23/2019 22:48 | <a href="#">WG1315928</a> |

## Mercury by Method 7471A

| Analyte | Result | Qualifier | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|----------|------------------|---------------------------|
|         | ug/kg  |           | ug/kg |          | date / time      |                           |
| Mercury | ND     |           | 20.0  | 1        | 07/22/2019 20:20 | <a href="#">WG1315509</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                     | Result | Qualifier | RDL   | Dilution | Analysis         | Batch                     |
|-----------------------------|--------|-----------|-------|----------|------------------|---------------------------|
|                             | ug/kg  |           | ug/kg |          | date / time      |                           |
| Acetone                     | ND     | <u>J3</u> | 625   | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| Acrylonitrile               | ND     |           | 313   | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| Benzene                     | ND     |           | 25.0  | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| Bromobenzene                | ND     |           | 313   | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| Bromodichloromethane        | ND     |           | 62.5  | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| Bromoform                   | ND     |           | 625   | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| Bromomethane                | ND     |           | 313   | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| n-Butylbenzene              | ND     |           | 313   | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| sec-Butylbenzene            | ND     |           | 313   | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| tert-Butylbenzene           | ND     | <u>J3</u> | 125   | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| Carbon tetrachloride        | ND     |           | 125   | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| Chlorobenzene               | ND     |           | 62.5  | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| Chlorodibromomethane        | ND     |           | 62.5  | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| Chloroethane                | ND     |           | 125   | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| Chloroform                  | ND     |           | 62.5  | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| Chloromethane               | ND     |           | 313   | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| 2-Chlorotoluene             | ND     |           | 62.5  | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| 4-Chlorotoluene             | ND     |           | 125   | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 625   | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| 1,2-Dibromoethane           | ND     |           | 62.5  | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| Dibromomethane              | ND     |           | 125   | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| 1,2-Dichlorobenzene         | ND     |           | 125   | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| 1,3-Dichlorobenzene         | ND     |           | 125   | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| 1,4-Dichlorobenzene         | ND     | <u>J4</u> | 125   | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| Dichlorodifluoromethane     | ND     |           | 62.5  | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| 1,1-Dichloroethane          | ND     |           | 62.5  | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| 1,2-Dichloroethane          | ND     |           | 62.5  | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| 1,1-Dichloroethene          | ND     |           | 62.5  | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| cis-1,2-Dichloroethene      | ND     |           | 62.5  | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| trans-1,2-Dichloroethene    | ND     |           | 125   | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| 1,2-Dichloropropane         | ND     |           | 125   | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| 1,1-Dichloropropene         | ND     |           | 62.5  | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| 1,3-Dichloropropane         | ND     |           | 125   | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| cis-1,3-Dichloropropene     | ND     |           | 62.5  | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| trans-1,3-Dichloropropene   | ND     |           | 125   | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| 2,2-Dichloropropane         | ND     |           | 62.5  | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| Di-isopropyl ether          | ND     |           | 25.0  | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| Ethylbenzene                | ND     |           | 62.5  | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| Hexachloro-1,3-butadiene    | ND     |           | 625   | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| Isopropylbenzene            | ND     |           | 62.5  | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| p-Isopropyltoluene          | ND     |           | 125   | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| 2-Butanone (MEK)            | ND     |           | 625   | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| Methylene Chloride          | ND     |           | 625   | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| 1-Methylnaphthalene         | ND     | <u>J3</u> | 625   | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |
| 2-Methylnaphthalene         | ND     | <u>J3</u> | 625   | 25       | 07/23/2019 17:02 | <a href="#">WG1315838</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Collected date/time: 07/12/19 12:00

L1120049

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                        | Result<br>ug/kg | Qualifier | RDL<br>ug/kg | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| 4-Methyl-2-pentanone (MIBK)    | ND              |           | 625          | 25       | 07/23/2019 17:02        | <a href="#">WG1315838</a> |
| Methyl tert-butyl ether        | ND              |           | 25.0         | 25       | 07/23/2019 17:02        | <a href="#">WG1315838</a> |
| Naphthalene                    | ND              | <u>J3</u> | 313          | 25       | 07/23/2019 17:02        | <a href="#">WG1315838</a> |
| n-Propylbenzene                | ND              |           | 125          | 25       | 07/23/2019 17:02        | <a href="#">WG1315838</a> |
| Styrene                        | ND              |           | 313          | 25       | 07/23/2019 17:02        | <a href="#">WG1315838</a> |
| 1,1,1,2-Tetrachloroethane      | ND              |           | 62.5         | 25       | 07/23/2019 17:02        | <a href="#">WG1315838</a> |
| 1,1,2,2-Tetrachloroethane      | ND              |           | 62.5         | 25       | 07/23/2019 17:02        | <a href="#">WG1315838</a> |
| 1,1,2-Trichlorotrifluoroethane | ND              |           | 62.5         | 25       | 07/23/2019 17:02        | <a href="#">WG1315838</a> |
| Tetrachloroethene              | ND              |           | 62.5         | 25       | 07/23/2019 17:02        | <a href="#">WG1315838</a> |
| Toluene                        | ND              |           | 125          | 25       | 07/23/2019 17:02        | <a href="#">WG1315838</a> |
| 1,2,3-Trichlorobenzene         | ND              | <u>J3</u> | 62.5         | 25       | 07/23/2019 17:02        | <a href="#">WG1315838</a> |
| 1,2,4-Trichlorobenzene         | ND              | <u>J3</u> | 313          | 25       | 07/23/2019 17:02        | <a href="#">WG1315838</a> |
| 1,1,1-Trichloroethane          | ND              |           | 62.5         | 25       | 07/23/2019 17:02        | <a href="#">WG1315838</a> |
| 1,1,2-Trichloroethane          | ND              |           | 62.5         | 25       | 07/23/2019 17:02        | <a href="#">WG1315838</a> |
| Trichloroethene                | ND              |           | 25.0         | 25       | 07/23/2019 17:02        | <a href="#">WG1315838</a> |
| Trichlorofluoromethane         | ND              |           | 62.5         | 25       | 07/23/2019 17:02        | <a href="#">WG1315838</a> |
| 1,2,3-Trichloropropane         | ND              |           | 313          | 25       | 07/23/2019 17:02        | <a href="#">WG1315838</a> |
| 1,2,4-Trimethylbenzene         | ND              |           | 125          | 25       | 07/23/2019 17:02        | <a href="#">WG1315838</a> |
| 1,2,3-Trimethylbenzene         | ND              |           | 125          | 25       | 07/23/2019 17:02        | <a href="#">WG1315838</a> |
| 1,3,5-Trimethylbenzene         | ND              |           | 125          | 25       | 07/23/2019 17:02        | <a href="#">WG1315838</a> |
| Vinyl chloride                 | ND              |           | 62.5         | 25       | 07/23/2019 17:02        | <a href="#">WG1315838</a> |
| Xylenes, Total                 | ND              | <u>J4</u> | 163          | 25       | 07/23/2019 17:02        | <a href="#">WG1315838</a> |
| (S) Toluene-d8                 | 108             |           | 75.0-131     |          | 07/23/2019 17:02        | <a href="#">WG1315838</a> |
| (S) 4-Bromofluorobenzene       | 104             |           | 67.0-138     |          | 07/23/2019 17:02        | <a href="#">WG1315838</a> |
| (S) 1,2-Dichloroethane-d4      | 99.7            |           | 70.0-130     |          | 07/23/2019 17:02        | <a href="#">WG1315838</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 81.1   |           | 1        | 07/23/2019 22:48 | <a href="#">WG1315928</a> |

## Mercury by Method 7471A

| Analyte | Result | Qualifier | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|----------|------------------|---------------------------|
|         | ug/kg  |           | ug/kg |          | date / time      |                           |
| Mercury | ND     |           | 20.0  | 1        | 07/22/2019 20:22 | <a href="#">WG1315509</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                     | Result | Qualifier | RDL   | Dilution | Analysis         | Batch                     |
|-----------------------------|--------|-----------|-------|----------|------------------|---------------------------|
|                             | ug/kg  |           | ug/kg |          | date / time      |                           |
| Acetone                     | ND     | <u>J3</u> | 625   | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| Acrylonitrile               | ND     |           | 313   | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| Benzene                     | ND     |           | 25.0  | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| Bromobenzene                | ND     |           | 313   | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| Bromodichloromethane        | ND     |           | 62.5  | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| Bromoform                   | ND     |           | 625   | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| Bromomethane                | ND     |           | 313   | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| n-Butylbenzene              | ND     |           | 313   | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| sec-Butylbenzene            | ND     |           | 313   | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| tert-Butylbenzene           | ND     | <u>J3</u> | 125   | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| Carbon tetrachloride        | ND     |           | 125   | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| Chlorobenzene               | ND     |           | 62.5  | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| Chlorodibromomethane        | ND     |           | 62.5  | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| Chloroethane                | ND     |           | 125   | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| Chloroform                  | ND     |           | 62.5  | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| Chloromethane               | ND     |           | 313   | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| 2-Chlorotoluene             | ND     |           | 62.5  | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| 4-Chlorotoluene             | ND     |           | 125   | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 625   | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| 1,2-Dibromoethane           | ND     |           | 62.5  | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| Dibromomethane              | ND     |           | 125   | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| 1,2-Dichlorobenzene         | ND     |           | 125   | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| 1,3-Dichlorobenzene         | ND     |           | 125   | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| 1,4-Dichlorobenzene         | ND     | <u>J4</u> | 125   | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| Dichlorodifluoromethane     | ND     |           | 62.5  | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| 1,1-Dichloroethane          | ND     |           | 62.5  | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| 1,2-Dichloroethane          | ND     |           | 62.5  | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| 1,1-Dichloroethene          | ND     |           | 62.5  | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| cis-1,2-Dichloroethene      | ND     |           | 62.5  | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| trans-1,2-Dichloroethene    | ND     |           | 125   | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| 1,2-Dichloropropane         | ND     |           | 125   | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| 1,1-Dichloropropene         | ND     |           | 62.5  | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| 1,3-Dichloropropane         | ND     |           | 125   | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| cis-1,3-Dichloropropene     | ND     |           | 62.5  | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| trans-1,3-Dichloropropene   | ND     |           | 125   | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| 2,2-Dichloropropane         | ND     |           | 62.5  | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| Di-isopropyl ether          | ND     |           | 25.0  | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| Ethylbenzene                | ND     |           | 62.5  | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| Hexachloro-1,3-butadiene    | ND     |           | 625   | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| Isopropylbenzene            | ND     |           | 62.5  | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| p-Isopropyltoluene          | ND     |           | 125   | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| 2-Butanone (MEK)            | ND     |           | 625   | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| Methylene Chloride          | ND     |           | 625   | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| 1-Methylnaphthalene         | ND     | <u>J3</u> | 625   | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |
| 2-Methylnaphthalene         | ND     | <u>J3</u> | 625   | 25       | 07/23/2019 17:23 | <a href="#">WG1315838</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 07/12/19 12:02

L1120049

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                        | Result<br>ug/kg | Qualifier | RDL<br>ug/kg | Dilution | Analysis<br>date / time | Batch                     |                 |
|--------------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|-----------------|
| 4-Methyl-2-pentanone (MIBK)    | ND              |           | 625          | 25       | 07/23/2019 17:23        | <a href="#">WG1315838</a> | <sup>1</sup> Cp |
| Methyl tert-butyl ether        | ND              |           | 25.0         | 25       | 07/23/2019 17:23        | <a href="#">WG1315838</a> | <sup>2</sup> Tc |
| Naphthalene                    | ND              | <u>J3</u> | 313          | 25       | 07/23/2019 17:23        | <a href="#">WG1315838</a> | <sup>3</sup> Ss |
| n-Propylbenzene                | ND              |           | 125          | 25       | 07/23/2019 17:23        | <a href="#">WG1315838</a> | <sup>4</sup> Cn |
| Styrene                        | ND              |           | 313          | 25       | 07/23/2019 17:23        | <a href="#">WG1315838</a> | <sup>5</sup> Sr |
| 1,1,1,2-Tetrachloroethane      | ND              |           | 62.5         | 25       | 07/23/2019 17:23        | <a href="#">WG1315838</a> | <sup>6</sup> Qc |
| 1,1,2,2-Tetrachloroethane      | ND              |           | 62.5         | 25       | 07/23/2019 17:23        | <a href="#">WG1315838</a> | <sup>7</sup> Gl |
| 1,1,2-Trichlorotrifluoroethane | ND              |           | 62.5         | 25       | 07/23/2019 17:23        | <a href="#">WG1315838</a> | <sup>8</sup> Al |
| Tetrachloroethene              | ND              |           | 62.5         | 25       | 07/23/2019 17:23        | <a href="#">WG1315838</a> | <sup>9</sup> Sc |
| Toluene                        | ND              |           | 125          | 25       | 07/23/2019 17:23        | <a href="#">WG1315838</a> |                 |
| 1,2,3-Trichlorobenzene         | ND              | <u>J3</u> | 62.5         | 25       | 07/23/2019 17:23        | <a href="#">WG1315838</a> |                 |
| 1,2,4-Trichlorobenzene         | ND              | <u>J3</u> | 313          | 25       | 07/23/2019 17:23        | <a href="#">WG1315838</a> |                 |
| 1,1,1-Trichloroethane          | ND              |           | 62.5         | 25       | 07/23/2019 17:23        | <a href="#">WG1315838</a> |                 |
| 1,1,2-Trichloroethane          | ND              |           | 62.5         | 25       | 07/23/2019 17:23        | <a href="#">WG1315838</a> |                 |
| Trichloroethene                | ND              |           | 25.0         | 25       | 07/23/2019 17:23        | <a href="#">WG1315838</a> |                 |
| Trichlorofluoromethane         | ND              |           | 62.5         | 25       | 07/23/2019 17:23        | <a href="#">WG1315838</a> |                 |
| 1,2,3-Trichloropropane         | ND              |           | 313          | 25       | 07/23/2019 17:23        | <a href="#">WG1315838</a> |                 |
| 1,2,4-Trimethylbenzene         | ND              |           | 125          | 25       | 07/23/2019 17:23        | <a href="#">WG1315838</a> |                 |
| 1,2,3-Trimethylbenzene         | ND              |           | 125          | 25       | 07/23/2019 17:23        | <a href="#">WG1315838</a> |                 |
| 1,3,5-Trimethylbenzene         | ND              |           | 125          | 25       | 07/23/2019 17:23        | <a href="#">WG1315838</a> |                 |
| Vinyl chloride                 | ND              |           | 62.5         | 25       | 07/23/2019 17:23        | <a href="#">WG1315838</a> |                 |
| Xylenes, Total                 | ND              | <u>J4</u> | 163          | 25       | 07/23/2019 17:23        | <a href="#">WG1315838</a> |                 |
| (S) Toluene-d8                 | 108             |           | 75.0-131     |          | 07/23/2019 17:23        | <a href="#">WG1315838</a> |                 |
| (S) 4-Bromofluorobenzene       | 106             |           | 67.0-138     |          | 07/23/2019 17:23        | <a href="#">WG1315838</a> |                 |
| (S) 1,2-Dichloroethane-d4      | 99.2            |           | 70.0-130     |          | 07/23/2019 17:23        | <a href="#">WG1315838</a> |                 |



Collected date/time: 07/12/19 12:05

L1120049

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 90.6   |           | 1        | 07/23/2019 22:48 | <a href="#">WG1315928</a> |

Mercury by Method 7471A

| Analyte | Result | Qualifier | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|----------|------------------|---------------------------|
|         | ug/kg  |           | ug/kg |          | date / time      |                           |
| Mercury | 25.0   | <u>B</u>  | 20.0  | 1        | 07/22/2019 20:24 | <a href="#">WG1315509</a> |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                     | Result | Qualifier | RDL   | Dilution | Analysis         | Batch                     |
|-----------------------------|--------|-----------|-------|----------|------------------|---------------------------|
|                             | ug/kg  |           | ug/kg |          | date / time      |                           |
| Acetone                     | ND     | <u>J3</u> | 625   | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| Acrylonitrile               | ND     |           | 313   | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| Benzene                     | ND     |           | 25.0  | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| Bromobenzene                | ND     |           | 313   | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| Bromodichloromethane        | ND     |           | 62.5  | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| Bromoform                   | ND     |           | 625   | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| Bromomethane                | ND     |           | 313   | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| n-Butylbenzene              | ND     |           | 313   | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| sec-Butylbenzene            | ND     |           | 313   | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| tert-Butylbenzene           | ND     | <u>J3</u> | 125   | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| Carbon tetrachloride        | ND     |           | 125   | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| Chlorobenzene               | ND     |           | 62.5  | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| Chlorodibromomethane        | ND     |           | 62.5  | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| Chloroethane                | ND     |           | 125   | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| Chloroform                  | ND     |           | 62.5  | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| Chloromethane               | ND     |           | 313   | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| 2-Chlorotoluene             | ND     |           | 62.5  | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| 4-Chlorotoluene             | ND     |           | 125   | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 625   | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| 1,2-Dibromoethane           | ND     |           | 62.5  | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| Dibromomethane              | ND     |           | 125   | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| 1,2-Dichlorobenzene         | ND     |           | 125   | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| 1,3-Dichlorobenzene         | ND     |           | 125   | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| 1,4-Dichlorobenzene         | ND     | <u>J4</u> | 125   | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| Dichlorodifluoromethane     | ND     |           | 62.5  | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| 1,1-Dichloroethane          | ND     |           | 62.5  | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| 1,2-Dichloroethane          | ND     |           | 62.5  | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| 1,1-Dichloroethene          | ND     |           | 62.5  | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| cis-1,2-Dichloroethene      | ND     |           | 62.5  | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| trans-1,2-Dichloroethene    | ND     |           | 125   | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| 1,2-Dichloropropane         | ND     |           | 125   | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| 1,1-Dichloropropene         | ND     |           | 62.5  | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| 1,3-Dichloropropane         | ND     |           | 125   | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| cis-1,3-Dichloropropene     | ND     |           | 62.5  | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| trans-1,3-Dichloropropene   | ND     |           | 125   | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| 2,2-Dichloropropane         | ND     |           | 62.5  | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| Di-isopropyl ether          | ND     |           | 25.0  | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| Ethylbenzene                | ND     |           | 62.5  | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| Hexachloro-1,3-butadiene    | ND     |           | 625   | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| Isopropylbenzene            | ND     |           | 62.5  | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| p-Isopropyltoluene          | ND     |           | 125   | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| 2-Butanone (MEK)            | ND     |           | 625   | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| Methylene Chloride          | ND     |           | 625   | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| 1-Methylnaphthalene         | ND     | <u>J3</u> | 625   | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |
| 2-Methylnaphthalene         | ND     | <u>J3</u> | 625   | 25       | 07/23/2019 17:43 | <a href="#">WG1315838</a> |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 07/12/19 12:05

L1120049

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                        | Result<br>ug/kg | Qualifier | RDL<br>ug/kg | Dilution | Analysis<br>date / time | Batch                     |                 |
|--------------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|-----------------|
| 4-Methyl-2-pentanone (MIBK)    | ND              |           | 625          | 25       | 07/23/2019 17:43        | <a href="#">WG1315838</a> | <sup>1</sup> Cp |
| Methyl tert-butyl ether        | ND              |           | 25.0         | 25       | 07/23/2019 17:43        | <a href="#">WG1315838</a> | <sup>2</sup> Tc |
| Naphthalene                    | ND              | <u>J3</u> | 313          | 25       | 07/23/2019 17:43        | <a href="#">WG1315838</a> | <sup>3</sup> Ss |
| n-Propylbenzene                | ND              |           | 125          | 25       | 07/23/2019 17:43        | <a href="#">WG1315838</a> | <sup>4</sup> Cn |
| Styrene                        | ND              |           | 313          | 25       | 07/23/2019 17:43        | <a href="#">WG1315838</a> | <sup>5</sup> Sr |
| 1,1,1,2-Tetrachloroethane      | ND              |           | 62.5         | 25       | 07/23/2019 17:43        | <a href="#">WG1315838</a> | <sup>6</sup> Qc |
| 1,1,2,2-Tetrachloroethane      | ND              |           | 62.5         | 25       | 07/23/2019 17:43        | <a href="#">WG1315838</a> | <sup>7</sup> Gl |
| 1,1,2-Trichlorotrifluoroethane | ND              |           | 62.5         | 25       | 07/23/2019 17:43        | <a href="#">WG1315838</a> | <sup>8</sup> Al |
| Tetrachloroethene              | ND              |           | 62.5         | 25       | 07/23/2019 17:43        | <a href="#">WG1315838</a> | <sup>9</sup> Sc |
| Toluene                        | ND              |           | 125          | 25       | 07/23/2019 17:43        | <a href="#">WG1315838</a> |                 |
| 1,2,3-Trichlorobenzene         | ND              | <u>J3</u> | 62.5         | 25       | 07/23/2019 17:43        | <a href="#">WG1315838</a> |                 |
| 1,2,4-Trichlorobenzene         | ND              | <u>J3</u> | 313          | 25       | 07/23/2019 17:43        | <a href="#">WG1315838</a> |                 |
| 1,1,1-Trichloroethane          | ND              |           | 62.5         | 25       | 07/23/2019 17:43        | <a href="#">WG1315838</a> |                 |
| 1,1,2-Trichloroethane          | ND              |           | 62.5         | 25       | 07/23/2019 17:43        | <a href="#">WG1315838</a> |                 |
| Trichloroethene                | ND              |           | 25.0         | 25       | 07/23/2019 17:43        | <a href="#">WG1315838</a> |                 |
| Trichlorofluoromethane         | ND              |           | 62.5         | 25       | 07/23/2019 17:43        | <a href="#">WG1315838</a> |                 |
| 1,2,3-Trichloropropane         | ND              |           | 313          | 25       | 07/23/2019 17:43        | <a href="#">WG1315838</a> |                 |
| 1,2,4-Trimethylbenzene         | ND              |           | 125          | 25       | 07/23/2019 17:43        | <a href="#">WG1315838</a> |                 |
| 1,2,3-Trimethylbenzene         | ND              |           | 125          | 25       | 07/23/2019 17:43        | <a href="#">WG1315838</a> |                 |
| 1,3,5-Trimethylbenzene         | ND              |           | 125          | 25       | 07/23/2019 17:43        | <a href="#">WG1315838</a> |                 |
| Vinyl chloride                 | ND              |           | 62.5         | 25       | 07/23/2019 17:43        | <a href="#">WG1315838</a> |                 |
| Xylenes, Total                 | ND              | <u>J4</u> | 163          | 25       | 07/23/2019 17:43        | <a href="#">WG1315838</a> |                 |
| (S) Toluene-d8                 | 106             |           | 75.0-131     |          | 07/23/2019 17:43        | <a href="#">WG1315838</a> |                 |
| (S) 4-Bromofluorobenzene       | 102             |           | 67.0-138     |          | 07/23/2019 17:43        | <a href="#">WG1315838</a> |                 |
| (S) 1,2-Dichloroethane-d4      | 101             |           | 70.0-130     |          | 07/23/2019 17:43        | <a href="#">WG1315838</a> |                 |



Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 85.7   |           | 1        | 07/23/2019 22:48 | <a href="#">WG1315928</a> |

Mercury by Method 7471A

| Analyte | Result | Qualifier | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|----------|------------------|---------------------------|
|         | ug/kg  |           | ug/kg |          | date / time      |                           |
| Mercury | ND     |           | 20.0  | 1        | 07/22/2019 20:27 | <a href="#">WG1315509</a> |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                     | Result | Qualifier | RDL   | Dilution | Analysis         | Batch                     |
|-----------------------------|--------|-----------|-------|----------|------------------|---------------------------|
|                             | ug/kg  |           | ug/kg |          | date / time      |                           |
| Acetone                     | ND     | <u>J3</u> | 638   | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| Acrylonitrile               | ND     |           | 319   | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| Benzene                     | ND     |           | 25.5  | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| Bromobenzene                | ND     |           | 319   | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| Bromodichloromethane        | ND     |           | 63.8  | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| Bromoform                   | ND     |           | 638   | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| Bromomethane                | ND     |           | 319   | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| n-Butylbenzene              | ND     |           | 319   | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| sec-Butylbenzene            | ND     |           | 319   | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| tert-Butylbenzene           | ND     | <u>J3</u> | 128   | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| Carbon tetrachloride        | ND     |           | 128   | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| Chlorobenzene               | ND     |           | 63.8  | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| Chlorodibromomethane        | ND     |           | 63.8  | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| Chloroethane                | ND     |           | 128   | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| Chloroform                  | ND     |           | 63.8  | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| Chloromethane               | ND     |           | 319   | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| 2-Chlorotoluene             | ND     |           | 63.8  | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| 4-Chlorotoluene             | ND     |           | 128   | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 638   | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| 1,2-Dibromoethane           | ND     |           | 63.8  | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| Dibromomethane              | ND     |           | 128   | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| 1,2-Dichlorobenzene         | ND     |           | 128   | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| 1,3-Dichlorobenzene         | ND     |           | 128   | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| 1,4-Dichlorobenzene         | ND     | <u>J4</u> | 128   | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| Dichlorodifluoromethane     | ND     |           | 63.8  | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| 1,1-Dichloroethane          | ND     |           | 63.8  | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| 1,2-Dichloroethane          | ND     |           | 63.8  | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| 1,1-Dichloroethene          | ND     |           | 63.8  | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| cis-1,2-Dichloroethene      | ND     |           | 63.8  | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| trans-1,2-Dichloroethene    | ND     |           | 128   | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| 1,2-Dichloropropane         | ND     |           | 128   | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| 1,1-Dichloropropene         | ND     |           | 63.8  | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| 1,3-Dichloropropane         | ND     |           | 128   | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| cis-1,3-Dichloropropene     | ND     |           | 63.8  | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| trans-1,3-Dichloropropene   | ND     |           | 128   | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| 2,2-Dichloropropane         | ND     |           | 63.8  | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| Di-isopropyl ether          | ND     |           | 25.5  | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| Ethylbenzene                | ND     |           | 63.8  | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| Hexachloro-1,3-butadiene    | ND     |           | 638   | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| Isopropylbenzene            | ND     |           | 63.8  | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| p-Isopropyltoluene          | ND     |           | 128   | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| 2-Butanone (MEK)            | ND     |           | 638   | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| Methylene Chloride          | ND     |           | 638   | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| 1-Methylnaphthalene         | ND     | <u>J3</u> | 638   | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |
| 2-Methylnaphthalene         | ND     | <u>J3</u> | 638   | 25.5     | 07/23/2019 18:03 | <a href="#">WG1315838</a> |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 07/12/19 12:15

L1120049

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                        | Result<br>ug/kg | Qualifier | RDL<br>ug/kg | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| 4-Methyl-2-pentanone (MIBK)    | ND              |           | 638          | 25.5     | 07/23/2019 18:03        | <a href="#">WG1315838</a> |
| Methyl tert-butyl ether        | ND              |           | 25.5         | 25.5     | 07/23/2019 18:03        | <a href="#">WG1315838</a> |
| Naphthalene                    | ND              | <u>J3</u> | 319          | 25.5     | 07/23/2019 18:03        | <a href="#">WG1315838</a> |
| n-Propylbenzene                | ND              |           | 128          | 25.5     | 07/23/2019 18:03        | <a href="#">WG1315838</a> |
| Styrene                        | ND              |           | 319          | 25.5     | 07/23/2019 18:03        | <a href="#">WG1315838</a> |
| 1,1,1,2-Tetrachloroethane      | ND              |           | 63.8         | 25.5     | 07/23/2019 18:03        | <a href="#">WG1315838</a> |
| 1,1,2,2-Tetrachloroethane      | ND              |           | 63.8         | 25.5     | 07/23/2019 18:03        | <a href="#">WG1315838</a> |
| 1,1,2-Trichlorotrifluoroethane | ND              |           | 63.8         | 25.5     | 07/23/2019 18:03        | <a href="#">WG1315838</a> |
| Tetrachloroethene              | ND              |           | 63.8         | 25.5     | 07/23/2019 18:03        | <a href="#">WG1315838</a> |
| Toluene                        | ND              |           | 128          | 25.5     | 07/23/2019 18:03        | <a href="#">WG1315838</a> |
| 1,2,3-Trichlorobenzene         | ND              | <u>J3</u> | 63.8         | 25.5     | 07/23/2019 18:03        | <a href="#">WG1315838</a> |
| 1,2,4-Trichlorobenzene         | ND              | <u>J3</u> | 319          | 25.5     | 07/23/2019 18:03        | <a href="#">WG1315838</a> |
| 1,1,1-Trichloroethane          | ND              |           | 63.8         | 25.5     | 07/23/2019 18:03        | <a href="#">WG1315838</a> |
| 1,1,2-Trichloroethane          | ND              |           | 63.8         | 25.5     | 07/23/2019 18:03        | <a href="#">WG1315838</a> |
| Trichloroethene                | ND              |           | 25.5         | 25.5     | 07/23/2019 18:03        | <a href="#">WG1315838</a> |
| Trichlorofluoromethane         | ND              |           | 63.8         | 25.5     | 07/23/2019 18:03        | <a href="#">WG1315838</a> |
| 1,2,3-Trichloropropane         | ND              |           | 319          | 25.5     | 07/23/2019 18:03        | <a href="#">WG1315838</a> |
| 1,2,4-Trimethylbenzene         | ND              |           | 128          | 25.5     | 07/23/2019 18:03        | <a href="#">WG1315838</a> |
| 1,2,3-Trimethylbenzene         | ND              |           | 128          | 25.5     | 07/23/2019 18:03        | <a href="#">WG1315838</a> |
| 1,3,5-Trimethylbenzene         | ND              |           | 128          | 25.5     | 07/23/2019 18:03        | <a href="#">WG1315838</a> |
| Vinyl chloride                 | ND              |           | 63.8         | 25.5     | 07/23/2019 18:03        | <a href="#">WG1315838</a> |
| Xylenes, Total                 | ND              | <u>J4</u> | 166          | 25.5     | 07/23/2019 18:03        | <a href="#">WG1315838</a> |
| (S) Toluene-d8                 | 107             |           | 75.0-131     |          | 07/23/2019 18:03        | <a href="#">WG1315838</a> |
| (S) 4-Bromofluorobenzene       | 105             |           | 67.0-138     |          | 07/23/2019 18:03        | <a href="#">WG1315838</a> |
| (S) 1,2-Dichloroethane-d4      | 101             |           | 70.0-130     |          | 07/23/2019 18:03        | <a href="#">WG1315838</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 82.1   |           | 1        | 07/23/2019 22:48 | <a href="#">WG1315928</a> |

Mercury by Method 7471A

| Analyte | Result | Qualifier | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|----------|------------------|---------------------------|
|         | ug/kg  |           | ug/kg |          | date / time      |                           |
| Mercury | ND     |           | 20.0  | 1        | 07/22/2019 20:29 | <a href="#">WG1315509</a> |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                     | Result | Qualifier | RDL   | Dilution | Analysis         | Batch                     |
|-----------------------------|--------|-----------|-------|----------|------------------|---------------------------|
|                             | ug/kg  |           | ug/kg |          | date / time      |                           |
| Acetone                     | ND     | <u>J3</u> | 625   | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| Acrylonitrile               | ND     |           | 313   | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| Benzene                     | ND     |           | 25.0  | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| Bromobenzene                | ND     |           | 313   | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| Bromodichloromethane        | ND     |           | 62.5  | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| Bromoform                   | ND     |           | 625   | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| Bromomethane                | ND     |           | 313   | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| n-Butylbenzene              | ND     |           | 313   | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| sec-Butylbenzene            | ND     |           | 313   | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| tert-Butylbenzene           | ND     | <u>J3</u> | 125   | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| Carbon tetrachloride        | ND     |           | 125   | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| Chlorobenzene               | ND     |           | 62.5  | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| Chlorodibromomethane        | ND     |           | 62.5  | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| Chloroethane                | ND     |           | 125   | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| Chloroform                  | ND     |           | 62.5  | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| Chloromethane               | ND     |           | 313   | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| 2-Chlorotoluene             | ND     |           | 62.5  | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| 4-Chlorotoluene             | ND     |           | 125   | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 625   | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| 1,2-Dibromoethane           | ND     |           | 62.5  | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| Dibromomethane              | ND     |           | 125   | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| 1,2-Dichlorobenzene         | ND     |           | 125   | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| 1,3-Dichlorobenzene         | ND     |           | 125   | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| 1,4-Dichlorobenzene         | ND     | <u>J4</u> | 125   | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| Dichlorodifluoromethane     | ND     |           | 62.5  | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| 1,1-Dichloroethane          | ND     |           | 62.5  | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| 1,2-Dichloroethane          | ND     |           | 62.5  | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| 1,1-Dichloroethene          | ND     |           | 62.5  | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| cis-1,2-Dichloroethene      | ND     |           | 62.5  | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| trans-1,2-Dichloroethene    | ND     |           | 125   | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| 1,2-Dichloropropane         | ND     |           | 125   | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| 1,1-Dichloropropene         | ND     |           | 62.5  | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| 1,3-Dichloropropane         | ND     |           | 125   | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| cis-1,3-Dichloropropene     | ND     |           | 62.5  | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| trans-1,3-Dichloropropene   | ND     |           | 125   | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| 2,2-Dichloropropane         | ND     |           | 62.5  | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| Di-isopropyl ether          | ND     |           | 25.0  | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| Ethylbenzene                | ND     |           | 62.5  | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| Hexachloro-1,3-butadiene    | ND     |           | 625   | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| Isopropylbenzene            | ND     |           | 62.5  | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| p-Isopropyltoluene          | ND     |           | 125   | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| 2-Butanone (MEK)            | ND     |           | 625   | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| Methylene Chloride          | ND     |           | 625   | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| 1-Methylnaphthalene         | ND     | <u>J3</u> | 625   | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |
| 2-Methylnaphthalene         | ND     | <u>J3</u> | 625   | 25       | 07/23/2019 18:23 | <a href="#">WG1315838</a> |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Collected date/time: 07/12/19 12:20

L1120049

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                        | Result | Qualifier | RDL      | Dilution | Analysis date / time | Batch                     |
|--------------------------------|--------|-----------|----------|----------|----------------------|---------------------------|
| 4-Methyl-2-pentanone (MIBK)    | ND     |           | 625      | 25       | 07/23/2019 18:23     | <a href="#">WG1315838</a> |
| Methyl tert-butyl ether        | ND     |           | 25.0     | 25       | 07/23/2019 18:23     | <a href="#">WG1315838</a> |
| Naphthalene                    | ND     | <u>J3</u> | 313      | 25       | 07/23/2019 18:23     | <a href="#">WG1315838</a> |
| n-Propylbenzene                | ND     |           | 125      | 25       | 07/23/2019 18:23     | <a href="#">WG1315838</a> |
| Styrene                        | ND     |           | 313      | 25       | 07/23/2019 18:23     | <a href="#">WG1315838</a> |
| 1,1,1,2-Tetrachloroethane      | ND     |           | 62.5     | 25       | 07/23/2019 18:23     | <a href="#">WG1315838</a> |
| 1,1,2,2-Tetrachloroethane      | ND     |           | 62.5     | 25       | 07/23/2019 18:23     | <a href="#">WG1315838</a> |
| 1,1,2-Trichlorotrifluoroethane | ND     |           | 62.5     | 25       | 07/23/2019 18:23     | <a href="#">WG1315838</a> |
| Tetrachloroethene              | ND     |           | 62.5     | 25       | 07/23/2019 18:23     | <a href="#">WG1315838</a> |
| Toluene                        | ND     |           | 125      | 25       | 07/23/2019 18:23     | <a href="#">WG1315838</a> |
| 1,2,3-Trichlorobenzene         | ND     | <u>J3</u> | 62.5     | 25       | 07/23/2019 18:23     | <a href="#">WG1315838</a> |
| 1,2,4-Trichlorobenzene         | ND     | <u>J3</u> | 313      | 25       | 07/23/2019 18:23     | <a href="#">WG1315838</a> |
| 1,1,1-Trichloroethane          | ND     |           | 62.5     | 25       | 07/23/2019 18:23     | <a href="#">WG1315838</a> |
| 1,1,2-Trichloroethane          | ND     |           | 62.5     | 25       | 07/23/2019 18:23     | <a href="#">WG1315838</a> |
| Trichloroethene                | ND     |           | 25.0     | 25       | 07/23/2019 18:23     | <a href="#">WG1315838</a> |
| Trichlorofluoromethane         | ND     |           | 62.5     | 25       | 07/23/2019 18:23     | <a href="#">WG1315838</a> |
| 1,2,3-Trichloropropane         | ND     |           | 313      | 25       | 07/23/2019 18:23     | <a href="#">WG1315838</a> |
| 1,2,4-Trimethylbenzene         | ND     |           | 125      | 25       | 07/23/2019 18:23     | <a href="#">WG1315838</a> |
| 1,2,3-Trimethylbenzene         | ND     |           | 125      | 25       | 07/23/2019 18:23     | <a href="#">WG1315838</a> |
| 1,3,5-Trimethylbenzene         | ND     |           | 125      | 25       | 07/23/2019 18:23     | <a href="#">WG1315838</a> |
| Vinyl chloride                 | ND     |           | 62.5     | 25       | 07/23/2019 18:23     | <a href="#">WG1315838</a> |
| Xylenes, Total                 | ND     | <u>J4</u> | 163      | 25       | 07/23/2019 18:23     | <a href="#">WG1315838</a> |
| (S) Toluene-d8                 | 109    |           | 75.0-131 |          | 07/23/2019 18:23     | <a href="#">WG1315838</a> |
| (S) 4-Bromofluorobenzene       | 103    |           | 67.0-138 |          | 07/23/2019 18:23     | <a href="#">WG1315838</a> |
| (S) 1,2-Dichloroethane-d4      | 100    |           | 70.0-130 |          | 07/23/2019 18:23     | <a href="#">WG1315838</a> |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 07/12/19 12:42

L1120049

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 86.5   |           | 1        | 07/23/2019 22:48 | <a href="#">WG1315928</a> |

Mercury by Method 7471A

| Analyte | Result | Qualifier | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|----------|------------------|---------------------------|
|         | ug/kg  |           | ug/kg |          | date / time      |                           |
| Mercury | ND     |           | 20.0  | 1        | 07/22/2019 20:31 | <a href="#">WG1315509</a> |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                     | Result | Qualifier | RDL   | Dilution | Analysis         | Batch                     |
|-----------------------------|--------|-----------|-------|----------|------------------|---------------------------|
|                             | ug/kg  |           | ug/kg |          | date / time      |                           |
| Acetone                     | ND     | <u>J3</u> | 638   | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| Acrylonitrile               | ND     |           | 319   | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| Benzene                     | ND     |           | 25.5  | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| Bromobenzene                | ND     |           | 319   | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| Bromodichloromethane        | ND     |           | 63.8  | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| Bromoform                   | ND     |           | 638   | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| Bromomethane                | ND     |           | 319   | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| n-Butylbenzene              | ND     |           | 319   | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| sec-Butylbenzene            | ND     |           | 319   | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| tert-Butylbenzene           | ND     | <u>J3</u> | 128   | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| Carbon tetrachloride        | ND     |           | 128   | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| Chlorobenzene               | ND     |           | 63.8  | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| Chlorodibromomethane        | ND     |           | 63.8  | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| Chloroethane                | ND     |           | 128   | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| Chloroform                  | ND     |           | 63.8  | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| Chloromethane               | ND     |           | 319   | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| 2-Chlorotoluene             | ND     |           | 63.8  | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| 4-Chlorotoluene             | ND     |           | 128   | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 638   | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| 1,2-Dibromoethane           | ND     |           | 63.8  | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| Dibromomethane              | ND     |           | 128   | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| 1,2-Dichlorobenzene         | ND     |           | 128   | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| 1,3-Dichlorobenzene         | ND     |           | 128   | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| 1,4-Dichlorobenzene         | ND     | <u>J4</u> | 128   | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| Dichlorodifluoromethane     | ND     |           | 63.8  | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| 1,1-Dichloroethane          | ND     |           | 63.8  | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| 1,2-Dichloroethane          | ND     |           | 63.8  | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| 1,1-Dichloroethene          | ND     |           | 63.8  | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| cis-1,2-Dichloroethene      | ND     |           | 63.8  | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| trans-1,2-Dichloroethene    | ND     |           | 128   | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| 1,2-Dichloropropane         | ND     |           | 128   | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| 1,1-Dichloropropene         | ND     |           | 63.8  | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| 1,3-Dichloropropane         | ND     |           | 128   | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| cis-1,3-Dichloropropene     | ND     |           | 63.8  | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| trans-1,3-Dichloropropene   | ND     |           | 128   | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| 2,2-Dichloropropane         | ND     |           | 63.8  | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| Di-isopropyl ether          | ND     |           | 25.5  | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| Ethylbenzene                | ND     |           | 63.8  | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| Hexachloro-1,3-butadiene    | ND     |           | 638   | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| Isopropylbenzene            | ND     |           | 63.8  | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| p-Isopropyltoluene          | ND     |           | 128   | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| 2-Butanone (MEK)            | ND     |           | 638   | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| Methylene Chloride          | ND     |           | 638   | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| 1-Methylnaphthalene         | ND     | <u>J3</u> | 638   | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |
| 2-Methylnaphthalene         | ND     | <u>J3</u> | 638   | 25.5     | 07/23/2019 18:44 | <a href="#">WG1315838</a> |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                        | Result | Qualifier | RDL      | Dilution | Analysis date / time | Batch                     |
|--------------------------------|--------|-----------|----------|----------|----------------------|---------------------------|
| 4-Methyl-2-pentanone (MIBK)    | ND     |           | 638      | 25.5     | 07/23/2019 18:44     | <a href="#">WG1315838</a> |
| Methyl tert-butyl ether        | ND     |           | 25.5     | 25.5     | 07/23/2019 18:44     | <a href="#">WG1315838</a> |
| Naphthalene                    | ND     | J3        | 319      | 25.5     | 07/23/2019 18:44     | <a href="#">WG1315838</a> |
| n-Propylbenzene                | ND     |           | 128      | 25.5     | 07/23/2019 18:44     | <a href="#">WG1315838</a> |
| Styrene                        | ND     |           | 319      | 25.5     | 07/23/2019 18:44     | <a href="#">WG1315838</a> |
| 1,1,1,2-Tetrachloroethane      | ND     |           | 63.8     | 25.5     | 07/23/2019 18:44     | <a href="#">WG1315838</a> |
| 1,1,2,2-Tetrachloroethane      | ND     |           | 63.8     | 25.5     | 07/23/2019 18:44     | <a href="#">WG1315838</a> |
| 1,1,2-Trichlorotrifluoroethane | ND     |           | 63.8     | 25.5     | 07/23/2019 18:44     | <a href="#">WG1315838</a> |
| Tetrachloroethene              | ND     |           | 63.8     | 25.5     | 07/23/2019 18:44     | <a href="#">WG1315838</a> |
| Toluene                        | ND     |           | 128      | 25.5     | 07/23/2019 18:44     | <a href="#">WG1315838</a> |
| 1,2,3-Trichlorobenzene         | ND     | J3        | 63.8     | 25.5     | 07/23/2019 18:44     | <a href="#">WG1315838</a> |
| 1,2,4-Trichlorobenzene         | ND     | J3        | 319      | 25.5     | 07/23/2019 18:44     | <a href="#">WG1315838</a> |
| 1,1,1-Trichloroethane          | ND     |           | 63.8     | 25.5     | 07/23/2019 18:44     | <a href="#">WG1315838</a> |
| 1,1,2-Trichloroethane          | ND     |           | 63.8     | 25.5     | 07/23/2019 18:44     | <a href="#">WG1315838</a> |
| Trichloroethene                | ND     |           | 25.5     | 25.5     | 07/23/2019 18:44     | <a href="#">WG1315838</a> |
| Trichlorofluoromethane         | ND     |           | 63.8     | 25.5     | 07/23/2019 18:44     | <a href="#">WG1315838</a> |
| 1,2,3-Trichloropropane         | ND     |           | 319      | 25.5     | 07/23/2019 18:44     | <a href="#">WG1315838</a> |
| 1,2,4-Trimethylbenzene         | ND     |           | 128      | 25.5     | 07/23/2019 18:44     | <a href="#">WG1315838</a> |
| 1,2,3-Trimethylbenzene         | ND     |           | 128      | 25.5     | 07/23/2019 18:44     | <a href="#">WG1315838</a> |
| 1,3,5-Trimethylbenzene         | ND     |           | 128      | 25.5     | 07/23/2019 18:44     | <a href="#">WG1315838</a> |
| Vinyl chloride                 | ND     |           | 63.8     | 25.5     | 07/23/2019 18:44     | <a href="#">WG1315838</a> |
| Xylenes, Total                 | ND     | J4        | 166      | 25.5     | 07/23/2019 18:44     | <a href="#">WG1315838</a> |
| (S) Toluene-d8                 | 108    |           | 75.0-131 |          | 07/23/2019 18:44     | <a href="#">WG1315838</a> |
| (S) 4-Bromofluorobenzene       | 103    |           | 67.0-138 |          | 07/23/2019 18:44     | <a href="#">WG1315838</a> |
| (S) 1,2-Dichloroethane-d4      | 103    |           | 70.0-130 |          | 07/23/2019 18:44     | <a href="#">WG1315838</a> |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 90.2   |           | 1        | 07/23/2019 22:48 | <a href="#">WG1315928</a> |

## Mercury by Method 7471A

| Analyte | Result | Qualifier | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|----------|------------------|---------------------------|
|         | ug/kg  |           | ug/kg |          | date / time      |                           |
| Mercury | ND     |           | 20.0  | 1        | 07/22/2019 20:33 | <a href="#">WG1315509</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                     | Result | Qualifier | RDL   | Dilution | Analysis         | Batch                     |
|-----------------------------|--------|-----------|-------|----------|------------------|---------------------------|
|                             | ug/kg  |           | ug/kg |          | date / time      |                           |
| Acetone                     | ND     | <u>J3</u> | 681   | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| Acrylonitrile               | ND     |           | 341   | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| Benzene                     | ND     |           | 27.3  | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| Bromobenzene                | ND     |           | 341   | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| Bromodichloromethane        | ND     |           | 68.1  | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| Bromoform                   | ND     |           | 681   | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| Bromomethane                | ND     |           | 341   | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| n-Butylbenzene              | ND     |           | 341   | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| sec-Butylbenzene            | ND     |           | 341   | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| tert-Butylbenzene           | ND     | <u>J3</u> | 136   | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| Carbon tetrachloride        | ND     |           | 136   | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| Chlorobenzene               | ND     |           | 68.1  | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| Chlorodibromomethane        | ND     |           | 68.1  | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| Chloroethane                | ND     |           | 136   | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| Chloroform                  | ND     |           | 68.1  | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| Chloromethane               | ND     |           | 341   | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| 2-Chlorotoluene             | ND     |           | 68.1  | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| 4-Chlorotoluene             | ND     |           | 136   | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 681   | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| 1,2-Dibromoethane           | ND     |           | 68.1  | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| Dibromomethane              | ND     |           | 136   | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| 1,2-Dichlorobenzene         | ND     |           | 136   | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| 1,3-Dichlorobenzene         | ND     |           | 136   | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| 1,4-Dichlorobenzene         | ND     | <u>J4</u> | 136   | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| Dichlorodifluoromethane     | ND     |           | 68.1  | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| 1,1-Dichloroethane          | ND     |           | 68.1  | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| 1,2-Dichloroethane          | ND     |           | 68.1  | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| 1,1-Dichloroethene          | ND     |           | 68.1  | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| cis-1,2-Dichloroethene      | ND     |           | 68.1  | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| trans-1,2-Dichloroethene    | ND     |           | 136   | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| 1,2-Dichloropropane         | ND     |           | 136   | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| 1,1-Dichloropropene         | ND     |           | 68.1  | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| 1,3-Dichloropropane         | ND     |           | 136   | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| cis-1,3-Dichloropropene     | ND     |           | 68.1  | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| trans-1,3-Dichloropropene   | ND     |           | 136   | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| 2,2-Dichloropropane         | ND     |           | 68.1  | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| Di-isopropyl ether          | ND     |           | 27.3  | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| Ethylbenzene                | ND     |           | 68.1  | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| Hexachloro-1,3-butadiene    | ND     |           | 681   | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| Isopropylbenzene            | ND     |           | 68.1  | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| p-Isopropyltoluene          | ND     |           | 136   | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| 2-Butanone (MEK)            | ND     |           | 681   | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| Methylene Chloride          | ND     |           | 681   | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| 1-Methylnaphthalene         | ND     | <u>J3</u> | 681   | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |
| 2-Methylnaphthalene         | ND     | <u>J3</u> | 681   | 27.25    | 07/23/2019 19:04 | <a href="#">WG1315838</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 07/12/19 12:47

L1120049

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                        | Result | Qualifier | RDL      | Dilution | Analysis date / time | Batch                     |
|--------------------------------|--------|-----------|----------|----------|----------------------|---------------------------|
| 4-Methyl-2-pentanone (MIBK)    | ND     |           | 681      | 27.25    | 07/23/2019 19:04     | <a href="#">WG1315838</a> |
| Methyl tert-butyl ether        | ND     |           | 27.3     | 27.25    | 07/23/2019 19:04     | <a href="#">WG1315838</a> |
| Naphthalene                    | ND     | <u>J3</u> | 341      | 27.25    | 07/23/2019 19:04     | <a href="#">WG1315838</a> |
| n-Propylbenzene                | ND     |           | 136      | 27.25    | 07/23/2019 19:04     | <a href="#">WG1315838</a> |
| Styrene                        | ND     |           | 341      | 27.25    | 07/23/2019 19:04     | <a href="#">WG1315838</a> |
| 1,1,1,2-Tetrachloroethane      | ND     |           | 68.1     | 27.25    | 07/23/2019 19:04     | <a href="#">WG1315838</a> |
| 1,1,2,2-Tetrachloroethane      | ND     |           | 68.1     | 27.25    | 07/23/2019 19:04     | <a href="#">WG1315838</a> |
| 1,1,2-Trichlorotrifluoroethane | ND     |           | 68.1     | 27.25    | 07/23/2019 19:04     | <a href="#">WG1315838</a> |
| Tetrachloroethene              | ND     |           | 68.1     | 27.25    | 07/23/2019 19:04     | <a href="#">WG1315838</a> |
| Toluene                        | ND     |           | 136      | 27.25    | 07/23/2019 19:04     | <a href="#">WG1315838</a> |
| 1,2,3-Trichlorobenzene         | ND     | <u>J3</u> | 68.1     | 27.25    | 07/23/2019 19:04     | <a href="#">WG1315838</a> |
| 1,2,4-Trichlorobenzene         | ND     | <u>J3</u> | 341      | 27.25    | 07/23/2019 19:04     | <a href="#">WG1315838</a> |
| 1,1,1-Trichloroethane          | ND     |           | 68.1     | 27.25    | 07/23/2019 19:04     | <a href="#">WG1315838</a> |
| 1,1,2-Trichloroethane          | ND     |           | 68.1     | 27.25    | 07/23/2019 19:04     | <a href="#">WG1315838</a> |
| Trichloroethene                | ND     |           | 27.3     | 27.25    | 07/23/2019 19:04     | <a href="#">WG1315838</a> |
| Trichlorofluoromethane         | ND     |           | 68.1     | 27.25    | 07/23/2019 19:04     | <a href="#">WG1315838</a> |
| 1,2,3-Trichloropropane         | ND     |           | 341      | 27.25    | 07/23/2019 19:04     | <a href="#">WG1315838</a> |
| 1,2,4-Trimethylbenzene         | ND     |           | 136      | 27.25    | 07/23/2019 19:04     | <a href="#">WG1315838</a> |
| 1,2,3-Trimethylbenzene         | ND     |           | 136      | 27.25    | 07/23/2019 19:04     | <a href="#">WG1315838</a> |
| 1,3,5-Trimethylbenzene         | ND     |           | 136      | 27.25    | 07/23/2019 19:04     | <a href="#">WG1315838</a> |
| Vinyl chloride                 | ND     |           | 68.1     | 27.25    | 07/23/2019 19:04     | <a href="#">WG1315838</a> |
| Xylenes, Total                 | ND     | <u>J4</u> | 177      | 27.25    | 07/23/2019 19:04     | <a href="#">WG1315838</a> |
| (S) Toluene-d8                 | 108    |           | 75.0-131 |          | 07/23/2019 19:04     | <a href="#">WG1315838</a> |
| (S) 4-Bromofluorobenzene       | 104    |           | 67.0-138 |          | 07/23/2019 19:04     | <a href="#">WG1315838</a> |
| (S) 1,2-Dichloroethane-d4      | 103    |           | 70.0-130 |          | 07/23/2019 19:04     | <a href="#">WG1315838</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 90.5   |           | 1        | 07/23/2019 22:48 | <a href="#">WG1315928</a> |

## Mercury by Method 7471A

| Analyte | Result | Qualifier | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|----------|------------------|---------------------------|
|         | ug/kg  |           | ug/kg |          | date / time      |                           |
| Mercury | ND     |           | 20.0  | 1        | 07/22/2019 20:35 | <a href="#">WG1315509</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                     | Result | Qualifier | RDL   | Dilution | Analysis         | Batch                     |
|-----------------------------|--------|-----------|-------|----------|------------------|---------------------------|
|                             | ug/kg  |           | ug/kg |          | date / time      |                           |
| Acetone                     | ND     | <u>J3</u> | 625   | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| Acrylonitrile               | ND     |           | 313   | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| Benzene                     | ND     |           | 25.0  | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| Bromobenzene                | ND     |           | 313   | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| Bromodichloromethane        | ND     |           | 62.5  | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| Bromoform                   | ND     |           | 625   | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| Bromomethane                | ND     |           | 313   | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| n-Butylbenzene              | ND     |           | 313   | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| sec-Butylbenzene            | ND     |           | 313   | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| tert-Butylbenzene           | ND     | <u>J3</u> | 125   | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| Carbon tetrachloride        | ND     |           | 125   | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| Chlorobenzene               | ND     |           | 62.5  | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| Chlorodibromomethane        | ND     |           | 62.5  | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| Chloroethane                | ND     |           | 125   | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| Chloroform                  | ND     |           | 62.5  | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| Chloromethane               | ND     |           | 313   | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| 2-Chlorotoluene             | ND     |           | 62.5  | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| 4-Chlorotoluene             | ND     |           | 125   | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 625   | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| 1,2-Dibromoethane           | ND     |           | 62.5  | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| Dibromomethane              | ND     |           | 125   | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| 1,2-Dichlorobenzene         | ND     |           | 125   | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| 1,3-Dichlorobenzene         | ND     |           | 125   | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| 1,4-Dichlorobenzene         | ND     | <u>J4</u> | 125   | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| Dichlorodifluoromethane     | ND     |           | 62.5  | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| 1,1-Dichloroethane          | ND     |           | 62.5  | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| 1,2-Dichloroethane          | ND     |           | 62.5  | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| 1,1-Dichloroethene          | ND     |           | 62.5  | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| cis-1,2-Dichloroethene      | ND     |           | 62.5  | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| trans-1,2-Dichloroethene    | ND     |           | 125   | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| 1,2-Dichloropropane         | ND     |           | 125   | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| 1,1-Dichloropropene         | ND     |           | 62.5  | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| 1,3-Dichloropropane         | ND     |           | 125   | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| cis-1,3-Dichloropropene     | ND     |           | 62.5  | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| trans-1,3-Dichloropropene   | ND     |           | 125   | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| 2,2-Dichloropropane         | ND     |           | 62.5  | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| Di-isopropyl ether          | ND     |           | 25.0  | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| Ethylbenzene                | ND     |           | 62.5  | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| Hexachloro-1,3-butadiene    | ND     |           | 625   | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| Isopropylbenzene            | ND     |           | 62.5  | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| p-Isopropyltoluene          | ND     |           | 125   | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| 2-Butanone (MEK)            | ND     |           | 625   | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| Methylene Chloride          | ND     |           | 625   | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| 1-Methylnaphthalene         | ND     | <u>J3</u> | 625   | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |
| 2-Methylnaphthalene         | ND     | <u>J3</u> | 625   | 25       | 07/23/2019 19:25 | <a href="#">WG1315838</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                        | Result | Qualifier | RDL      | Dilution | Analysis date / time | Batch                     |
|--------------------------------|--------|-----------|----------|----------|----------------------|---------------------------|
| 4-Methyl-2-pentanone (MIBK)    | ND     |           | 625      | 25       | 07/23/2019 19:25     | <a href="#">WG1315838</a> |
| Methyl tert-butyl ether        | ND     |           | 25.0     | 25       | 07/23/2019 19:25     | <a href="#">WG1315838</a> |
| Naphthalene                    | ND     | <u>J3</u> | 313      | 25       | 07/23/2019 19:25     | <a href="#">WG1315838</a> |
| n-Propylbenzene                | ND     |           | 125      | 25       | 07/23/2019 19:25     | <a href="#">WG1315838</a> |
| Styrene                        | ND     |           | 313      | 25       | 07/23/2019 19:25     | <a href="#">WG1315838</a> |
| 1,1,1,2-Tetrachloroethane      | ND     |           | 62.5     | 25       | 07/23/2019 19:25     | <a href="#">WG1315838</a> |
| 1,1,2,2-Tetrachloroethane      | ND     |           | 62.5     | 25       | 07/23/2019 19:25     | <a href="#">WG1315838</a> |
| 1,1,2-Trichlorotrifluoroethane | ND     |           | 62.5     | 25       | 07/23/2019 19:25     | <a href="#">WG1315838</a> |
| Tetrachloroethene              | ND     |           | 62.5     | 25       | 07/23/2019 19:25     | <a href="#">WG1315838</a> |
| Toluene                        | ND     |           | 125      | 25       | 07/23/2019 19:25     | <a href="#">WG1315838</a> |
| 1,2,3-Trichlorobenzene         | ND     | <u>J3</u> | 62.5     | 25       | 07/23/2019 19:25     | <a href="#">WG1315838</a> |
| 1,2,4-Trichlorobenzene         | ND     | <u>J3</u> | 313      | 25       | 07/23/2019 19:25     | <a href="#">WG1315838</a> |
| 1,1,1-Trichloroethane          | ND     |           | 62.5     | 25       | 07/23/2019 19:25     | <a href="#">WG1315838</a> |
| 1,1,2-Trichloroethane          | ND     |           | 62.5     | 25       | 07/23/2019 19:25     | <a href="#">WG1315838</a> |
| Trichloroethene                | ND     |           | 25.0     | 25       | 07/23/2019 19:25     | <a href="#">WG1315838</a> |
| Trichlorofluoromethane         | ND     |           | 62.5     | 25       | 07/23/2019 19:25     | <a href="#">WG1315838</a> |
| 1,2,3-Trichloropropane         | ND     |           | 313      | 25       | 07/23/2019 19:25     | <a href="#">WG1315838</a> |
| 1,2,4-Trimethylbenzene         | ND     |           | 125      | 25       | 07/23/2019 19:25     | <a href="#">WG1315838</a> |
| 1,2,3-Trimethylbenzene         | ND     |           | 125      | 25       | 07/23/2019 19:25     | <a href="#">WG1315838</a> |
| 1,3,5-Trimethylbenzene         | ND     |           | 125      | 25       | 07/23/2019 19:25     | <a href="#">WG1315838</a> |
| Vinyl chloride                 | ND     |           | 62.5     | 25       | 07/23/2019 19:25     | <a href="#">WG1315838</a> |
| Xylenes, Total                 | ND     | <u>J4</u> | 163      | 25       | 07/23/2019 19:25     | <a href="#">WG1315838</a> |
| (S) Toluene-d8                 | 107    |           | 75.0-131 |          | 07/23/2019 19:25     | <a href="#">WG1315838</a> |
| (S) 4-Bromofluorobenzene       | 105    |           | 67.0-138 |          | 07/23/2019 19:25     | <a href="#">WG1315838</a> |
| (S) 1,2-Dichloroethane-d4      | 105    |           | 70.0-130 |          | 07/23/2019 19:25     | <a href="#">WG1315838</a> |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 88.0   |           | 1        | 07/23/2019 22:42 | <a href="#">WG1315929</a> |

## Mercury by Method 7471A

| Analyte | Result | Qualifier | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|----------|------------------|---------------------------|
|         | ug/kg  |           | ug/kg |          | date / time      |                           |
| Mercury | 28.0   | <u>B</u>  | 20.0  | 1        | 07/22/2019 20:38 | <a href="#">WG1315509</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                     | Result | Qualifier | RDL   | Dilution | Analysis         | Batch                     |
|-----------------------------|--------|-----------|-------|----------|------------------|---------------------------|
|                             | ug/kg  |           | ug/kg |          | date / time      |                           |
| Acetone                     | ND     | <u>J3</u> | 688   | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| Acrylonitrile               | ND     |           | 344   | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| Benzene                     | ND     |           | 27.5  | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| Bromobenzene                | ND     |           | 344   | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| Bromodichloromethane        | ND     |           | 68.8  | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| Bromoform                   | ND     |           | 688   | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| Bromomethane                | ND     |           | 344   | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| n-Butylbenzene              | ND     |           | 344   | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| sec-Butylbenzene            | ND     |           | 344   | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| tert-Butylbenzene           | ND     | <u>J3</u> | 138   | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| Carbon tetrachloride        | ND     |           | 138   | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| Chlorobenzene               | ND     |           | 68.8  | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| Chlorodibromomethane        | ND     |           | 68.8  | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| Chloroethane                | ND     |           | 138   | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| Chloroform                  | ND     |           | 68.8  | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| Chloromethane               | ND     |           | 344   | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| 2-Chlorotoluene             | ND     |           | 68.8  | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| 4-Chlorotoluene             | ND     |           | 138   | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 688   | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| 1,2-Dibromoethane           | ND     |           | 68.8  | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| Dibromomethane              | ND     |           | 138   | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| 1,2-Dichlorobenzene         | ND     |           | 138   | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| 1,3-Dichlorobenzene         | ND     |           | 138   | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| 1,4-Dichlorobenzene         | ND     | <u>J4</u> | 138   | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| Dichlorodifluoromethane     | ND     |           | 68.8  | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| 1,1-Dichloroethane          | ND     |           | 68.8  | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| 1,2-Dichloroethane          | ND     |           | 68.8  | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| 1,1-Dichloroethene          | ND     |           | 68.8  | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| cis-1,2-Dichloroethene      | ND     |           | 68.8  | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| trans-1,2-Dichloroethene    | ND     |           | 138   | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| 1,2-Dichloropropane         | ND     |           | 138   | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| 1,1-Dichloropropene         | ND     |           | 68.8  | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| 1,3-Dichloropropane         | ND     |           | 138   | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| cis-1,3-Dichloropropene     | ND     |           | 68.8  | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| trans-1,3-Dichloropropene   | ND     |           | 138   | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| 2,2-Dichloropropane         | ND     |           | 68.8  | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| Di-isopropyl ether          | ND     |           | 27.5  | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| Ethylbenzene                | ND     |           | 68.8  | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| Hexachloro-1,3-butadiene    | ND     |           | 688   | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| Isopropylbenzene            | ND     |           | 68.8  | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| p-Isopropyltoluene          | ND     |           | 138   | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| 2-Butanone (MEK)            | ND     |           | 688   | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| Methylene Chloride          | ND     |           | 688   | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| 1-Methylnaphthalene         | ND     | <u>J3</u> | 688   | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |
| 2-Methylnaphthalene         | ND     | <u>J3</u> | 688   | 27.5     | 07/23/2019 19:46 | <a href="#">WG1315838</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Collected date/time: 07/12/19 14:10

L1120049

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                        | Result<br>ug/kg | Qualifier | RDL<br>ug/kg | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| 4-Methyl-2-pentanone (MIBK)    | ND              |           | 688          | 27.5     | 07/23/2019 19:46        | <a href="#">WG1315838</a> |
| Methyl tert-butyl ether        | ND              |           | 27.5         | 27.5     | 07/23/2019 19:46        | <a href="#">WG1315838</a> |
| Naphthalene                    | ND              | <u>J3</u> | 344          | 27.5     | 07/23/2019 19:46        | <a href="#">WG1315838</a> |
| n-Propylbenzene                | ND              |           | 138          | 27.5     | 07/23/2019 19:46        | <a href="#">WG1315838</a> |
| Styrene                        | ND              |           | 344          | 27.5     | 07/23/2019 19:46        | <a href="#">WG1315838</a> |
| 1,1,1,2-Tetrachloroethane      | ND              |           | 68.8         | 27.5     | 07/23/2019 19:46        | <a href="#">WG1315838</a> |
| 1,1,2,2-Tetrachloroethane      | ND              |           | 68.8         | 27.5     | 07/23/2019 19:46        | <a href="#">WG1315838</a> |
| 1,1,2-Trichlorotrifluoroethane | ND              |           | 68.8         | 27.5     | 07/23/2019 19:46        | <a href="#">WG1315838</a> |
| Tetrachloroethene              | ND              |           | 68.8         | 27.5     | 07/23/2019 19:46        | <a href="#">WG1315838</a> |
| Toluene                        | ND              |           | 138          | 27.5     | 07/23/2019 19:46        | <a href="#">WG1315838</a> |
| 1,2,3-Trichlorobenzene         | ND              | <u>J3</u> | 68.8         | 27.5     | 07/23/2019 19:46        | <a href="#">WG1315838</a> |
| 1,2,4-Trichlorobenzene         | ND              | <u>J3</u> | 344          | 27.5     | 07/23/2019 19:46        | <a href="#">WG1315838</a> |
| 1,1,1-Trichloroethane          | ND              |           | 68.8         | 27.5     | 07/23/2019 19:46        | <a href="#">WG1315838</a> |
| 1,1,2-Trichloroethane          | ND              |           | 68.8         | 27.5     | 07/23/2019 19:46        | <a href="#">WG1315838</a> |
| Trichloroethene                | ND              |           | 27.5         | 27.5     | 07/23/2019 19:46        | <a href="#">WG1315838</a> |
| Trichlorofluoromethane         | ND              |           | 68.8         | 27.5     | 07/23/2019 19:46        | <a href="#">WG1315838</a> |
| 1,2,3-Trichloropropane         | ND              |           | 344          | 27.5     | 07/23/2019 19:46        | <a href="#">WG1315838</a> |
| 1,2,4-Trimethylbenzene         | ND              |           | 138          | 27.5     | 07/23/2019 19:46        | <a href="#">WG1315838</a> |
| 1,2,3-Trimethylbenzene         | ND              |           | 138          | 27.5     | 07/23/2019 19:46        | <a href="#">WG1315838</a> |
| 1,3,5-Trimethylbenzene         | ND              |           | 138          | 27.5     | 07/23/2019 19:46        | <a href="#">WG1315838</a> |
| Vinyl chloride                 | ND              |           | 68.8         | 27.5     | 07/23/2019 19:46        | <a href="#">WG1315838</a> |
| Xylenes, Total                 | ND              | <u>J4</u> | 179          | 27.5     | 07/23/2019 19:46        | <a href="#">WG1315838</a> |
| (S) Toluene-d8                 | 109             |           | 75.0-131     |          | 07/23/2019 19:46        | <a href="#">WG1315838</a> |
| (S) 4-Bromofluorobenzene       | 105             |           | 67.0-138     |          | 07/23/2019 19:46        | <a href="#">WG1315838</a> |
| (S) 1,2-Dichloroethane-d4      | 104             |           | 70.0-130     |          | 07/23/2019 19:46        | <a href="#">WG1315838</a> |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Method Blank (MB)

(MB) R3433837-1 07/23/19 22:48

| Analyte      | MB Result<br>% | MB Qualifier | MB MDL<br>% | MB RDL<br>% |
|--------------|----------------|--------------|-------------|-------------|
| Total Solids | 0.000          |              |             |             |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

L1120049-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1120049-01 07/23/19 22:48 • (DUP) R3433837-3 07/23/19 22:48

| Analyte      | Original Result<br>% | DUP Result<br>% | Dilution | DUP RPD<br>% | DUP Qualifier | DUP RPD<br>Limits |
|--------------|----------------------|-----------------|----------|--------------|---------------|-------------------|
| Total Solids | 82.9                 | 82.1            | 1        | 0.861        |               | 10                |

<sup>5</sup> Sr

<sup>6</sup> Qc

Laboratory Control Sample (LCS)

(LCS) R3433837-2 07/23/19 22:48

| Analyte      | Spike Amount<br>% | LCS Result<br>% | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|--------------|-------------------|-----------------|---------------|------------------|---------------|
| Total Solids | 50.0              | 50.0            | 99.9          | 85.0-115         |               |

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3433846-1 07/23/19 22:42

| Analyte      | MB Result<br>% | MB Qualifier | MB MDL<br>% | MB RDL<br>% |
|--------------|----------------|--------------|-------------|-------------|
| Total Solids | 0.000          |              |             |             |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

L1120374-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1120374-02 07/23/19 22:42 • (DUP) R3433846-3 07/23/19 22:42

| Analyte      | Original Result<br>% | DUP Result<br>% | Dilution | DUP RPD<br>% | DUP Qualifier | DUP RPD<br>Limits |
|--------------|----------------------|-----------------|----------|--------------|---------------|-------------------|
| Total Solids | 84.3                 | 84.1            | 1        | 0.132        |               | 10                |

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS)

(LCS) R3433846-2 07/23/19 22:42

| Analyte      | Spike Amount<br>% | LCS Result<br>% | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|--------------|-------------------|-----------------|---------------|------------------|---------------|
| Total Solids | 50.0              | 50.0            | 100           | 85.0-115         |               |



Method Blank (MB)

(MB) R3433072-1 07/22/19 19:40

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------|-----------|--------------|--------|--------|
| Mercury | 13.0      | J            | 2.80   | 20.0   |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3433072-2 07/22/19 19:43 • (LCSD) R3433072-3 07/22/19 19:45

| Analyte | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD  | RPD Limits |
|---------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
| Mercury | 500          | 447        | 478         | 89.3     | 95.7      | 80.0-120    |               |                | 6.85 | 20         |

L1120041-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1120041-03 07/22/19 19:51 • (MS) R3433072-4 07/22/19 19:54 • (MSD) R3433072-5 07/22/19 19:56

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD  | RPD Limits |
|---------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Mercury | 500          | 25.2            | 298       | 331        | 54.7    | 61.2     | 1        | 75.0-125    | J6           | J6            | 10.4 | 20         |

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3433408-3 07/23/19 11:01

| Analyte                     | MB Result | MB Qualifier | MB MDL | MB RDL |
|-----------------------------|-----------|--------------|--------|--------|
|                             | ug/kg     |              | ug/kg  | ug/kg  |
| Acetone                     | U         |              | 13.7   | 25.0   |
| Acrylonitrile               | U         |              | 1.90   | 12.5   |
| Benzene                     | U         |              | 0.400  | 1.00   |
| Bromobenzene                | U         |              | 1.05   | 12.5   |
| Bromodichloromethane        | U         |              | 0.788  | 2.50   |
| Bromoform                   | U         |              | 5.98   | 25.0   |
| Bromomethane                | U         |              | 3.70   | 12.5   |
| n-Butylbenzene              | U         |              | 3.84   | 12.5   |
| sec-Butylbenzene            | U         |              | 2.53   | 12.5   |
| tert-Butylbenzene           | U         |              | 1.55   | 5.00   |
| Carbon tetrachloride        | U         |              | 1.08   | 5.00   |
| Chlorobenzene               | U         |              | 0.573  | 2.50   |
| Chlorodibromomethane        | U         |              | 0.450  | 2.50   |
| Chloroethane                | U         |              | 1.08   | 5.00   |
| Chloroform                  | U         |              | 0.415  | 2.50   |
| Chloromethane               | U         |              | 1.39   | 12.5   |
| 2-Chlorotoluene             | U         |              | 0.920  | 2.50   |
| 4-Chlorotoluene             | U         |              | 1.13   | 5.00   |
| 1,2-Dibromo-3-Chloropropane | U         |              | 5.10   | 25.0   |
| 1,2-Dibromoethane           | U         |              | 0.525  | 2.50   |
| Dibromomethane              | U         |              | 1.00   | 5.00   |
| 1,2-Dichlorobenzene         | U         |              | 1.45   | 5.00   |
| 1,3-Dichlorobenzene         | U         |              | 1.70   | 5.00   |
| 1,4-Dichlorobenzene         | U         |              | 1.97   | 5.00   |
| Dichlorodifluoromethane     | U         |              | 0.818  | 2.50   |
| 1,1-Dichloroethane          | U         |              | 0.575  | 2.50   |
| 1,2-Dichloroethane          | U         |              | 0.475  | 2.50   |
| 1,1-Dichloroethene          | U         |              | 0.500  | 2.50   |
| cis-1,2-Dichloroethene      | U         |              | 0.690  | 2.50   |
| trans-1,2-Dichloroethene    | U         |              | 1.43   | 5.00   |
| 1,2-Dichloropropane         | U         |              | 1.27   | 5.00   |
| 1,1-Dichloropropene         | U         |              | 0.700  | 2.50   |
| 1,3-Dichloropropane         | U         |              | 1.75   | 5.00   |
| cis-1,3-Dichloropropene     | U         |              | 0.678  | 2.50   |
| trans-1,3-Dichloropropene   | U         |              | 1.53   | 5.00   |
| 2,2-Dichloropropane         | U         |              | 0.793  | 2.50   |
| Di-isopropyl ether          | U         |              | 0.350  | 1.00   |
| Ethylbenzene                | U         |              | 0.530  | 2.50   |
| Hexachloro-1,3-butadiene    | U         |              | 12.7   | 25.0   |
| Isopropylbenzene            | U         |              | 0.863  | 2.50   |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3433408-3 07/23/19 11:01

| Analyte                        | MB Result | MB Qualifier | MB MDL | MB RDL   |
|--------------------------------|-----------|--------------|--------|----------|
|                                | ug/kg     |              | ug/kg  | ug/kg    |
| p-Isopropyltoluene             | U         |              | 2.33   | 5.00     |
| 2-Butanone (MEK)               | U         |              | 12.5   | 25.0     |
| Methylene Chloride             | U         |              | 6.64   | 25.0     |
| 4-Methyl-2-pentanone (MIBK)    | U         |              | 10.0   | 25.0     |
| Methyl tert-butyl ether        | U         |              | 0.295  | 1.00     |
| 1-Methylnaphthalene            | U         |              | 8.12   | 25.0     |
| 2-Methylnaphthalene            | U         |              | 7.60   | 25.0     |
| Naphthalene                    | U         |              | 3.12   | 12.5     |
| n-Propylbenzene                | U         |              | 1.18   | 5.00     |
| Styrene                        | U         |              | 2.73   | 12.5     |
| 1,1,1,2-Tetrachloroethane      | U         |              | 0.500  | 2.50     |
| 1,1,2,2-Tetrachloroethane      | U         |              | 0.390  | 2.50     |
| Tetrachloroethene              | U         |              | 0.700  | 2.50     |
| Toluene                        | U         |              | 1.25   | 5.00     |
| 1,1,2-Trichlorotrifluoroethane | U         |              | 0.675  | 2.50     |
| 1,2,3-Trichlorobenzene         | U         |              | 0.625  | 2.50     |
| 1,2,4-Trichlorobenzene         | U         |              | 4.82   | 12.5     |
| 1,1,1-Trichloroethane          | U         |              | 0.275  | 2.50     |
| 1,1,2-Trichloroethane          | U         |              | 0.883  | 2.50     |
| Trichloroethene                | U         |              | 0.400  | 1.00     |
| Trichlorofluoromethane         | U         |              | 0.500  | 2.50     |
| 1,2,3-Trichloropropane         | U         |              | 5.10   | 12.5     |
| 1,2,3-Trimethylbenzene         | U         |              | 1.15   | 5.00     |
| 1,2,4-Trimethylbenzene         | U         |              | 1.16   | 5.00     |
| 1,3,5-Trimethylbenzene         | U         |              | 1.08   | 5.00     |
| Vinyl chloride                 | U         |              | 0.683  | 2.50     |
| Xylenes, Total                 | U         |              | 4.78   | 6.50     |
| (S) Toluene-d8                 | 105       |              |        | 75.0-131 |
| (S) 4-Bromofluorobenzene       | 101       |              |        | 67.0-138 |
| (S) 1,2-Dichloroethane-d4      | 108       |              |        | 70.0-130 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3433408-1 07/23/19 09:38 • (LCSD) R3433408-2 07/23/19 09:58

| Analyte       | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD  | RPD Limits |
|---------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
|               | ug/kg        | ug/kg      | ug/kg       | %        | %         | %           |               |                | %    | %          |
| Acetone       | 625          | 435        | 874         | 69.6     | 140       | 10.0-160    |               | J3             | 67.2 | 31         |
| Acrylonitrile | 625          | 656        | 678         | 105      | 109       | 45.0-153    |               |                | 3.28 | 22         |
| Benzene       | 125          | 98.1       | 99.5        | 78.5     | 79.6      | 70.0-123    |               |                | 1.43 | 20         |



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3433408-1 07/23/19 09:38 • (LCSD) R3433408-2 07/23/19 09:58

| Analyte                     | Spike Amount<br>ug/kg | LCS Result<br>ug/kg | LCSD Result<br>ug/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-----------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Bromobenzene                | 125                   | 130                 | 139                  | 104           | 111            | 73.0-121         |               |                | 6.57     | 20              |
| Bromodichloromethane        | 125                   | 120                 | 125                  | 95.9          | 99.9           | 73.0-121         |               |                | 4.06     | 20              |
| Bromoform                   | 125                   | 98.8                | 107                  | 79.0          | 85.3           | 64.0-132         |               |                | 7.61     | 20              |
| Bromomethane                | 125                   | 120                 | 131                  | 95.8          | 105            | 56.0-147         |               |                | 9.13     | 20              |
| n-Butylbenzene              | 125                   | 117                 | 125                  | 93.3          | 100            | 68.0-135         |               |                | 6.95     | 20              |
| sec-Butylbenzene            | 125                   | 117                 | 125                  | 93.5          | 100            | 74.0-130         |               |                | 7.03     | 20              |
| tert-Butylbenzene           | 125                   | 96.7                | 121                  | 77.4          | 96.9           | 75.0-127         |               | J3             | 22.5     | 20              |
| Carbon tetrachloride        | 125                   | 121                 | 119                  | 96.5          | 95.2           | 66.0-128         |               |                | 1.33     | 20              |
| Chlorobenzene               | 125                   | 106                 | 108                  | 84.4          | 86.3           | 76.0-128         |               |                | 2.17     | 20              |
| Chlorodibromomethane        | 125                   | 118                 | 125                  | 94.3          | 100            | 74.0-127         |               |                | 5.88     | 20              |
| Chloroethane                | 125                   | 101                 | 106                  | 81.0          | 85.0           | 61.0-134         |               |                | 4.79     | 20              |
| Chloroform                  | 125                   | 113                 | 116                  | 90.2          | 92.8           | 72.0-123         |               |                | 2.82     | 20              |
| Chloromethane               | 125                   | 126                 | 134                  | 101           | 108            | 51.0-138         |               |                | 6.77     | 20              |
| 2-Chlorotoluene             | 125                   | 114                 | 116                  | 91.4          | 92.9           | 75.0-124         |               |                | 1.71     | 20              |
| 4-Chlorotoluene             | 125                   | 112                 | 118                  | 89.7          | 94.3           | 75.0-124         |               |                | 5.07     | 20              |
| 1,2-Dibromo-3-Chloropropane | 125                   | 114                 | 126                  | 90.9          | 101            | 59.0-130         |               |                | 10.5     | 20              |
| 1,2-Dibromoethane           | 125                   | 103                 | 108                  | 82.2          | 86.3           | 74.0-128         |               |                | 4.88     | 20              |
| Dibromomethane              | 125                   | 107                 | 113                  | 85.9          | 90.4           | 75.0-122         |               |                | 5.17     | 20              |
| 1,2-Dichlorobenzene         | 125                   | 109                 | 119                  | 87.2          | 95.0           | 76.0-124         |               |                | 8.62     | 20              |
| 1,3-Dichlorobenzene         | 125                   | 119                 | 128                  | 95.3          | 102            | 76.0-125         |               |                | 7.12     | 20              |
| 1,4-Dichlorobenzene         | 125                   | 95.4                | 103                  | 76.3          | 82.4           | 77.0-121         | J4            |                | 7.62     | 20              |
| Dichlorodifluoromethane     | 125                   | 123                 | 129                  | 98.0          | 103            | 43.0-156         |               |                | 5.36     | 20              |
| 1,1-Dichloroethane          | 125                   | 132                 | 138                  | 106           | 110            | 70.0-127         |               |                | 4.15     | 20              |
| 1,2-Dichloroethane          | 125                   | 131                 | 130                  | 104           | 104            | 65.0-131         |               |                | 0.214    | 20              |
| 1,1-Dichloroethene          | 125                   | 114                 | 120                  | 91.4          | 96.1           | 65.0-131         |               |                | 5.00     | 20              |
| cis-1,2-Dichloroethene      | 125                   | 117                 | 118                  | 93.8          | 94.3           | 73.0-125         |               |                | 0.572    | 20              |
| trans-1,2-Dichloroethene    | 125                   | 111                 | 113                  | 88.6          | 90.1           | 71.0-125         |               |                | 1.64     | 20              |
| 1,2-Dichloropropane         | 125                   | 126                 | 129                  | 101           | 103            | 74.0-125         |               |                | 1.84     | 20              |
| 1,1-Dichloropropene         | 125                   | 102                 | 99.4                 | 81.4          | 79.5           | 73.0-125         |               |                | 2.26     | 20              |
| 1,3-Dichloropropane         | 125                   | 121                 | 127                  | 96.5          | 101            | 80.0-125         |               |                | 4.80     | 20              |
| cis-1,3-Dichloropropene     | 125                   | 111                 | 113                  | 88.8          | 90.6           | 76.0-127         |               |                | 2.04     | 20              |
| trans-1,3-Dichloropropene   | 125                   | 119                 | 122                  | 95.3          | 97.4           | 73.0-127         |               |                | 2.20     | 20              |
| 2,2-Dichloropropane         | 125                   | 152                 | 147                  | 122           | 117            | 59.0-135         |               |                | 3.70     | 20              |
| Di-isopropyl ether          | 125                   | 118                 | 121                  | 94.1          | 96.9           | 60.0-136         |               |                | 2.92     | 20              |
| Ethylbenzene                | 125                   | 110                 | 116                  | 88.0          | 93.1           | 74.0-126         |               |                | 5.59     | 20              |
| Hexachloro-1,3-butadiene    | 125                   | 102                 | 123                  | 81.4          | 98.1           | 57.0-150         |               |                | 18.7     | 20              |
| Isopropylbenzene            | 125                   | 100                 | 103                  | 80.2          | 82.5           | 72.0-127         |               |                | 2.80     | 20              |
| p-Isopropyltoluene          | 125                   | 111                 | 121                  | 88.8          | 96.5           | 72.0-133         |               |                | 8.31     | 20              |
| 2-Butanone (MEK)            | 625                   | 710                 | 723                  | 114           | 116            | 30.0-160         |               |                | 1.85     | 24              |
| Methylene Chloride          | 125                   | 105                 | 110                  | 84.4          | 87.9           | 68.0-123         |               |                | 4.04     | 20              |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3433408-1 07/23/19 09:38 • (LCSD) R3433408-2 07/23/19 09:58

| Analyte                        | Spike Amount<br>ug/kg | LCS Result<br>ug/kg | LCSD Result<br>ug/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|--------------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| 4-Methyl-2-pentanone (MIBK)    | 625                   | 616                 | 637                  | 98.5          | 102            | 56.0-143         |               |                | 3.31     | 20              |
| Methyl tert-butyl ether        | 125                   | 117                 | 121                  | 93.6          | 96.7           | 66.0-132         |               |                | 3.21     | 20              |
| 1-Methylnaphthalene            | 125                   | 130                 | 171                  | 104           | 137            | 47.0-145         |               | J3             | 27.3     | 25              |
| 2-Methylnaphthalene            | 125                   | 133                 | 175                  | 106           | 140            | 32.0-149         |               | J3             | 27.4     | 26              |
| Naphthalene                    | 125                   | 106                 | 136                  | 84.5          | 109            | 59.0-130         |               | J3             | 25.3     | 20              |
| n-Propylbenzene                | 125                   | 109                 | 128                  | 86.9          | 103            | 74.0-126         |               |                | 16.6     | 20              |
| Styrene                        | 125                   | 103                 | 110                  | 82.6          | 88.2           | 72.0-127         |               |                | 6.52     | 20              |
| 1,1,1,2-Tetrachloroethane      | 125                   | 120                 | 124                  | 96.3          | 99.2           | 74.0-129         |               |                | 2.94     | 20              |
| 1,1,2,2-Tetrachloroethane      | 125                   | 108                 | 113                  | 86.7          | 90.7           | 68.0-128         |               |                | 4.52     | 20              |
| Tetrachloroethene              | 125                   | 115                 | 122                  | 91.6          | 97.7           | 70.0-136         |               |                | 6.38     | 20              |
| Toluene                        | 125                   | 111                 | 115                  | 88.5          | 92.0           | 75.0-121         |               |                | 3.78     | 20              |
| 1,1,2-Trichlorotrifluoroethane | 125                   | 105                 | 102                  | 83.8          | 81.8           | 61.0-139         |               |                | 2.33     | 20              |
| 1,2,3-Trichlorobenzene         | 125                   | 113                 | 151                  | 90.2          | 120            | 59.0-139         |               | J3             | 28.8     | 20              |
| 1,2,4-Trichlorobenzene         | 125                   | 101                 | 127                  | 80.9          | 101            | 62.0-137         |               | J3             | 22.5     | 20              |
| 1,1,1-Trichloroethane          | 125                   | 115                 | 122                  | 91.7          | 97.9           | 69.0-126         |               |                | 6.50     | 20              |
| 1,1,2-Trichloroethane          | 125                   | 107                 | 119                  | 85.6          | 95.4           | 78.0-123         |               |                | 10.9     | 20              |
| Trichloroethene                | 125                   | 133                 | 139                  | 107           | 111            | 76.0-126         |               |                | 4.12     | 20              |
| Trichlorofluoromethane         | 125                   | 112                 | 115                  | 89.7          | 92.2           | 61.0-142         |               |                | 2.68     | 20              |
| 1,2,3-Trichloropropane         | 125                   | 116                 | 125                  | 92.8          | 100            | 67.0-129         |               |                | 7.50     | 20              |
| 1,2,3-Trimethylbenzene         | 125                   | 107                 | 118                  | 85.9          | 94.5           | 74.0-124         |               |                | 9.55     | 20              |
| 1,2,4-Trimethylbenzene         | 125                   | 104                 | 111                  | 83.4          | 88.9           | 70.0-126         |               |                | 6.31     | 20              |
| 1,3,5-Trimethylbenzene         | 125                   | 119                 | 126                  | 95.1          | 101            | 73.0-127         |               |                | 5.54     | 20              |
| Vinyl chloride                 | 125                   | 108                 | 112                  | 86.3          | 89.9           | 63.0-134         |               |                | 4.01     | 20              |
| Xylenes, Total                 | 375                   | 298                 | 339                  | 79.5          | 90.4           | 72.0-127         | J4            |                | 12.9     | 20              |
| (S) Toluene-d8                 |                       |                     |                      | 105           | 105            | 75.0-131         |               |                |          |                 |
| (S) 4-Bromofluorobenzene       |                       |                     |                      | 105           | 104            | 67.0-138         |               |                |          |                 |
| (S) 1,2-Dichloroethane-d4      |                       |                     |                      | 108           | 110            | 70.0-130         |               |                |          |                 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

|                              |  |
|------------------------------|--|
| MDL                          | Method Detection Limit.  |
| ND                           | Not detected at the Reporting Limit (or MDL where applicable).   |
| RDL                          | Reported Detection Limit.  |
| Rec.                         | Recovery.  |
| RPD                          | Relative Percent Difference.   |
| SDG                          | Sample Delivery Group.   |
| (S)                          | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.   |
| U                            | Not detected at the Reporting Limit (or MDL where applicable).   |
| Analyte                      | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.   |
| Dilution                     | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.  |
| Limits                       | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.  |
| Original Sample              | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.  |
| Qualifier                    | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.  |
| Result                       | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma.   |
| Case Narrative (Cn)          | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.  |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.  |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.  |
| Sample Results (Sr)          | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.   |
| Sample Summary (Ss)          | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.  |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Qualifier Description

|    |   |
|----|---|
| B  | The same analyte is found in the associated blank.  |
| J  | The identification of the analyte is acceptable; the reported value is an estimate.                   |
| J3 | The associated batch QC was outside the established quality control range for precision.              |
| J4 | The associated batch QC was outside the established quality control range for accuracy.               |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

|                         |             |                             |                  |
|-------------------------|-------------|-----------------------------|------------------|
| Alabama                 | 40660       | Nebraska                    | NE-OS-15-05      |
| Alaska                  | 17-026      | Nevada                      | TN-03-2002-34    |
| Arizona                 | AZ0612      | New Hampshire               | 2975             |
| Arkansas                | 88-0469     | New Jersey-NELAP            | TN002            |
| California              | 2932        | New Mexico <sup>1</sup>     | n/a              |
| Colorado                | TN00003     | New York                    | 11742            |
| Connecticut             | PH-0197     | North Carolina              | Env375           |
| Florida                 | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                 | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>    | 923         | North Dakota                | R-140            |
| Idaho                   | TN00003     | Ohio-VAP                    | CL0069           |
| Illinois                | 200008      | Oklahoma                    | 9915             |
| Indiana                 | C-TN-01     | Oregon                      | TN200002         |
| Iowa                    | 364         | Pennsylvania                | 68-02979         |
| Kansas                  | E-10277     | Rhode Island                | LA000356         |
| Kentucky <sup>1,6</sup> | 90010       | South Carolina              | 84004            |
| Kentucky <sup>2</sup>   | 16          | South Dakota                | n/a              |
| Louisiana               | AI30792     | Tennessee <sup>1,4</sup>    | 2006             |
| Louisiana <sup>1</sup>  | LA180010    | Texas                       | T104704245-18-15 |
| Maine                   | TN0002      | Texas <sup>5</sup>          | LAB0152          |
| Maryland                | 324         | Utah                        | TN00003          |
| Massachusetts           | M-TN003     | Vermont                     | VT2006           |
| Michigan                | 9958        | Virginia                    | 460132           |
| Minnesota               | 047-999-395 | Washington                  | C847             |
| Mississippi             | TN00003     | West Virginia               | 233              |
| Missouri                | 340         | Wisconsin                   | 9980939910       |
| Montana                 | CERT0086    | Wyoming                     | A2LA             |

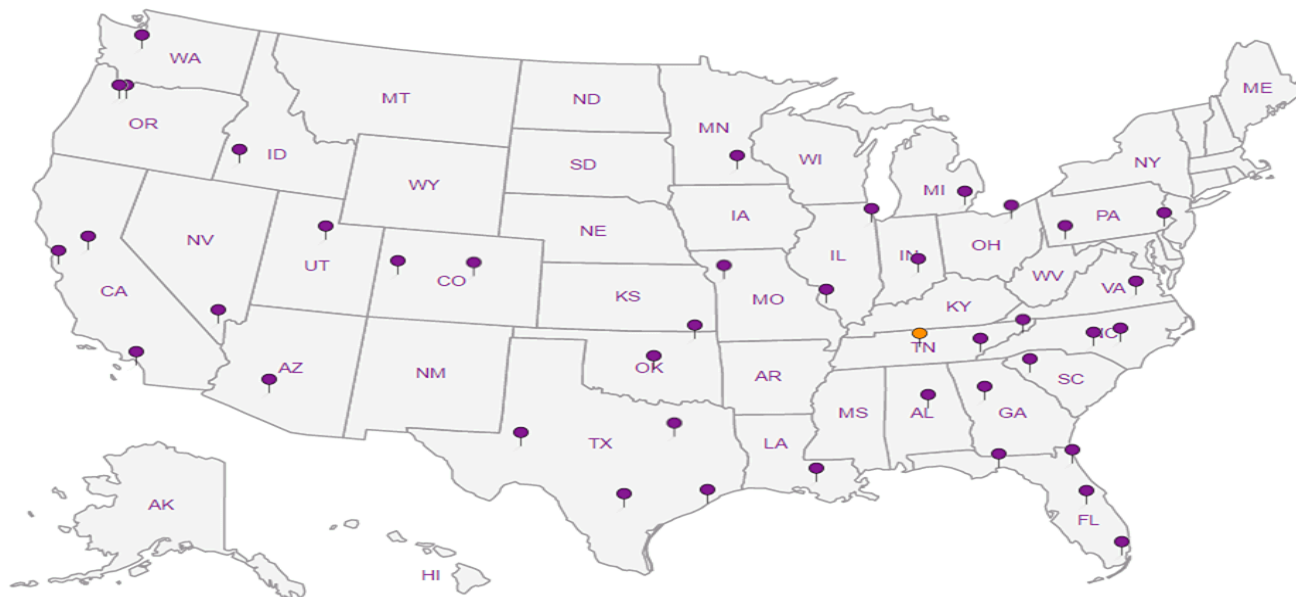
## Third Party Federal Accreditations

|                               |         |                    |               |
|-------------------------------|---------|--------------------|---------------|
| A2LA – ISO 17025              | 1461.01 | AIHA-LAP,LLC EMLAP | 100789        |
| A2LA – ISO 17025 <sup>5</sup> | 1461.02 | DOD                | 1461.01       |
| Canada                        | 1461.01 | USDA               | P330-15-00234 |
| EPA-Crypto                    | TN00003 |                    |               |

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1120049



### CHAIN OF CUSTODY

\*Preservation Codes  
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH  
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)

Company Name: **ATC GROUP SVCS**

Branch/Location: **NOVI**

Project Contact: **D2 BULLY HORN**

Phone: **248 563 2563**

Project Number: **NPTBD 19002**

Project Name: **Dowdson/Forndak**

Project State: **MI**

Sampled By (Print): **L. A.**

Sampled By (Sign):

PO #: \_\_\_\_\_ Regulatory Program: \_\_\_\_\_

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV

**MS/MSD**  
 On your sample (billable)  
 NOT needed on your sample

**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 SI = Sludge WP = Wipe

| FILTERED? (YES/NO) | Y/N | Pick Letter | Analyses Requested |
|--------------------|-----|-------------|--------------------|
|                    |     |             | Vols (8260)        |
|                    |     |             | Mercury            |

Quote #: \_\_\_\_\_

Mail To Contact: \_\_\_\_\_

Mail To Company: \_\_\_\_\_

Mail To Address: \_\_\_\_\_

Invoice To Contact: \_\_\_\_\_

Invoice To Company: \_\_\_\_\_

Invoice To Address: \_\_\_\_\_

Invoice To Phone: \_\_\_\_\_

**CLIENT COMMENTS**

**LAB COMMENTS (Lab Use Only)**

Profile #

| PACE LAB # | CLIENT FIELD ID | COLLECTION |       | MATRIX | Y/N | Pick Letter | Analyses Requested | CLIENT COMMENTS | LAB COMMENTS (Lab Use Only) | Profile # |
|------------|-----------------|------------|-------|--------|-----|-------------|--------------------|-----------------|-----------------------------|-----------|
|            |                 | DATE       | TIME  |        |     |             |                    |                 |                             |           |
|            | F3 4-5          | 7/12       | 11:50 | S      |     |             |                    | HOLD            |                             |           |
|            | E3 4-5          | 7          | 11:54 | S      |     |             |                    | HOLD            |                             |           |
|            | D3 4-5          |            | 11:55 | S      |     |             |                    | HOLD            |                             |           |
|            | E7 4-5          |            | 11:57 | S      |     | X           | X                  | HOLD Released   |                             | - 01      |
|            | F1 4-5          |            | 12:00 | S      |     | X           | X                  | HOLD Released   |                             | - 02      |
|            | D-1 4-5         |            | 12:02 | S      |     | X           | X                  | HOLD Released   |                             | - 03      |
|            | D-2 4-5         |            | 12:05 | S      |     | X           | X                  | HOLD Released   |                             | - 04      |
|            | D-4 4-5         |            | 12:10 | S      |     |             |                    | HOLD            |                             |           |
|            | C-1 4-5         |            | 12:15 | S      |     | X           | X                  | HOLD Released   |                             | - 05      |
|            | C-2 4-5         |            | 12:20 | S      |     | X           | X                  | HOLD            |                             | - 06      |
|            | B-1 4-5         |            | 12:42 | S      |     | X           | X                  | HOLD            |                             | - 07      |
|            | A-1 4-5         |            | 12:47 | S      |     | X           | X                  | HOLD            |                             | - 08      |
|            | A-2 4-5         |            | 12:55 | S      |     | X           | X                  | HOLD            |                             | - 09      |

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)  
 Date Needed: \_\_\_\_\_

Transmit Prelim Rush Results by (complete what you want):

|                                     |                       |                                 |                       |
|-------------------------------------|-----------------------|---------------------------------|-----------------------|
| Relinquished By: <i>[Signature]</i> | Date/Time: 7/12 17:00 | Received By: <i>Atc Storage</i> | Date/Time: 7/12 17:00 |
| Relinquished By:                    | Date/Time:            | Received By:                    | Date/Time:            |
| Relinquished By:                    | Date/Time:            | Received By:                    | Date/Time:            |
| Relinquished By:                    | Date/Time:            | Received By:                    | Date/Time:            |
| Relinquished By:                    | Date/Time:            | Received By:                    | Date/Time:            |

Samples on HOLD are subject to special pricing and release of liability

PACE Project No. \_\_\_\_\_

Receipt Temp = \_\_\_\_\_ °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

(Please Print Clearly)

UPPER MIDWEST REGION

Page 2 of 2

MN: 612-607-1700 WI: 920-469-2436

L1120049

Company Name: **ATC GROUP SVCS**  
 Branch/Location: **NOVI**  
 Project Contact: **DeBusschere**  
 Phone: **248 863 2563**  
 Project Number: **NP3BD 19002**  
 Project Name: **Donaldson-Ferndale**  
 Project State: **MI**  
 Sampled By (Print): **1.A**  
 Sampled By (Sign):



### CHAIN OF CUSTODY

\*Preservation Codes  
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH  
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED? (YES/NO)

PRESERVATION (CODE)\*

| Y/N | Pick Letter | Matrix | DATE | TIME  | MATRIX |
|-----|-------------|--------|------|-------|--------|
|     |             |        | 7/12 | 12:56 | S      |
|     |             |        | 7/12 | 13:00 | S      |
|     |             |        |      | 13:55 | S      |
|     |             |        |      | 14:00 | S      |
|     |             |        |      | 14:10 | S      |
|     |             |        |      | 14:13 | S      |
|     |             |        |      | 14:18 | S      |
|     |             |        |      | 14:40 | S      |
|     |             |        |      | 14:49 | S      |
|     |             |        |      |       |        |

Quote #:  
 Mail To Contact:  
 Mail To Company:  
 Mail To Address:

Invoice To Contact:  
 Invoice To Company:  
 Invoice To Address:  
 Invoice To Phone:

| CLIENT COMMENTS          | LAB COMMENTS (Lab Use Only) | Profile # |
|--------------------------|-----------------------------|-----------|
| Hold                     |                             |           |
| Hold                     |                             |           |
| Hold                     |                             |           |
| Hold                     |                             |           |
| <del>Hold</del> Released |                             | -10       |
| Hold                     |                             |           |
| Hold                     |                             |           |
| Hold                     |                             |           |
| Hold                     |                             |           |
| Hold                     |                             |           |

Regulatory Program: \_\_\_\_\_

Data Package Options (billable)  
 EPA Level III  
 EPA Level IV

MS/MSD  
 On your sample (billable)  
 NOT needed on your sample

Matrix Codes  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 SI = Sludge WP = Wipe

| PACE LAB # | CLIENT FIELD ID |      | COLLECTION |       | MATRIX |
|------------|-----------------|------|------------|-------|--------|
|            | DATE            | TIME | DATE       | TIME  |        |
|            | A-3             | 4-5  | 7/12       | 12:56 | S      |
|            | A-4             | 4-5  | 7/12       | 13:00 | S      |
|            | B-4             | 4-5  |            | 13:55 | S      |
|            | B-3             | 4-5  |            | 14:00 | S      |
|            | B-2             | 4-5  |            | 14:10 | S      |
|            | C-3             | 4-5  |            | 14:13 | S      |
|            | C-4             | 4-5  |            | 14:18 | S      |
|            | E-4             | 4-5  |            | 14:40 | S      |
|            | F-4             | 4-5  |            | 14:49 | S      |
|            | DUP 1           |      |            |       |        |
|            | DUP 2           |      |            |       |        |

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)  
 Date Needed: \_\_\_\_\_

Transmit Prelim Rush Results by (complete what you want):  
 Email #1: \_\_\_\_\_  
 Email #2: \_\_\_\_\_  
 Telephone: \_\_\_\_\_  
 Fax: \_\_\_\_\_

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: \_\_\_\_\_ Date/Time: 7/12 17:00  
 Received By: ATC Storage Date/Time: 7/12 17:00

Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

PACE Project No. \_\_\_\_\_  
 Receipt Temp = \_\_\_\_\_ °C  
 Sample Receipt pH \_\_\_\_\_ OK / Adjusted  
 Cooler Custody Seal Present / Not Present Intact / Not Intact

41120049

(Please Print Clearly)

Company Name: **ATC GROUP SVCS**  
 Branch/Location: **NOVI**  
 Project Contact: **DeBlushchevic**  
 Phone: **248 963 2563**  
 Project Number: **NPTBD 19002**  
 Project Name: **Douglas / Forndak**  
 Project State: **MI**  
 Sampled By (Print): **L. A.**  
 Sampled By (Sign):  
 PO #:  
 Regulatory Program:



**CHAIN OF CUSTODY**

\*Preservation Codes  
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH  
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?  
(YES/NO)  
 PRESERVATION  
(CODE)\*

| Y/N | Pick Letter | Analyses Requested |
|-----|-------------|--------------------|
|     |             | Vols (8260)        |
|     |             | Mercury            |

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV

**MS/MSD**  
 On your sample (billable)  
 NOT needed on your sample

**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 Sl = Sludge WP = Wipe

| PACE LAB # | CLIENT FIELD ID | COLLECTION |       | MATRIX |
|------------|-----------------|------------|-------|--------|
|            |                 | DATE       | TIME  |        |
| F3         | 4-5             | 7/12       | 11:50 | S      |
| E3         | 4-5             | 7          | 11:54 | S      |
| D3         | 4-5             |            | 11:55 | S      |
| E2         | 4-5             |            | 11:57 | S      |
| F1         | 4-5             |            | 12:00 | S      |
| D-1        | 4-5             |            | 12:02 | S      |
| D-2        | 4-5             |            | 12:05 | G      |
| D-4        | 4-5             |            | 12:10 | S      |
| C-1        | 4-5             |            | 12:15 | S      |
| C-2        | 4-5             |            | 12:20 | S      |
| B-1        | 4-5             |            | 12:42 | S      |
| A-1        | 4-5             |            | 12:47 | S      |
| A-2        | 4-5             |            | 12:52 | S      |

Quote #:  
 Mail To Contact:  
 Mail To Company:  
 Mail To Address:  
 Invoice To Contact:  
 Invoice To Company:  
 Invoice To Address:  
 Invoice To Phone:

| CLIENT COMMENTS | LAB COMMENTS (Lab Use Only) | Profile # |
|-----------------|-----------------------------|-----------|
| HOLD            |                             |           |
| HOLD            |                             |           |
| HOLD            | D235                        |           |
| HOLD            |                             | 01        |
| HOLD            |                             | 02        |
| HOLD            |                             | 03        |
| HOLD            | 7-103                       | 04        |
| HOLD            |                             |           |
| HOLD            |                             | 05        |
| HOLD            |                             | 06        |
| HOLD            |                             | 07        |
| HOLD            |                             | 08        |
| HOLD            |                             | 09        |

Rush Turnaround Time Requested - Prelims  
 (Rush TAT subject to approval/surcharge)  
 Date Needed:  
 Transmit Prelim Rush Results by (complete what you want):  
 Email #1:  
 Email #2:  
 Telephone:  
 Fax:  
 Samples on HOLD are subject to special pricing and release of liability

|                              |                       |                           |                       |
|------------------------------|-----------------------|---------------------------|-----------------------|
| Relinquished By: [Signature] | Date/Time: 7/12 17:00 | Received By: Atc Storage  | Date/Time: 7/12 17:00 |
| Relinquished By: [Signature] | Date/Time: 10:41      | Received By: Johnny Deane | Date/Time: 7/19 1041  |
| Relinquished By: [Signature] | Date/Time:            | Received By: [Signature]  | Date/Time: 7/19 8:45  |
| Relinquished By:             | Date/Time:            | Received By:              | Date/Time:            |
| Relinquished By:             | Date/Time:            | Received By:              | Date/Time:            |

PACE Project No.  
 Receipt Temp = 2.0 °C  
 Sample Receipt pH OK / Adjusted  
 Cooler Custody Seal Present / Not Present Intact / Not Intact

RAD SCREEN: <0.5 mR/hr

24-0.12.3F202

(Please Print Clearly)

UPPER MIDWEST REGION

Company Name: ATC Group SVCS  
 Branch/Location: NOVI  
 Project Contact: DeBusschere  
 Phone: 248 863 2563  
 Project Number: NP5BD 19002  
 Project Name: Donaldson - Ferndale  
 Project State: MI  
 Sampled By (Print): L.A  
 Sampled By (Sign):



MN: 612-607-1700 WI: 920-469-2436

L1120049

### CHAIN OF CUSTODY

**\*Preservation Codes**  
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH  
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?  
(YES/NO)  
  
 PRESERVATION  
(CODE)\*

| Y/N | Pick Letter | Analysis Requested |
|-----|-------------|--------------------|
|     |             | VOCs               |
|     |             | Mercury            |

Quote #:  
 Mail To Contact:  
 Mail To Company:  
 Mail To Address:  
 Invoice To Contact:  
 Invoice To Company:  
 Invoice To Address:  
 Invoice To Phone:

PO #: Regulatory Program:

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV

**MS/MSD**  
 On your sample (billable)  
 NOT needed on your sample

**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 SI = Sludge WP = Wipe

| PACE LAB # | CLIENT FIELD ID | COLLECTION |       | MATRIX |
|------------|-----------------|------------|-------|--------|
|            |                 | DATE       | TIME  |        |
| A-3        | 4-5             | 7/12       | 12:56 | S      |
| A-4        | 4-5             | 7/12       | 13:00 | S      |
| B-4        | 4-5             |            | 13:55 | S      |
| B-3        | 4-5             |            | 14:00 | S      |
| B-2        | 4-5             |            | 14:10 | S      |
| C-3        | 4-5             |            | 14:13 | S      |
| C-4        | 4-5             |            | 14:18 | S      |
| E-4        | 4-5             |            | 14:40 | S      |
| E-4        | 4-5             |            | 14:45 | S      |
| DUP-1      |                 |            |       |        |
| DUP-2      |                 |            |       |        |

| CLIENT COMMENTS | LAB COMMENTS (Lab Use Only) | Profile # |
|-----------------|-----------------------------|-----------|
| Hold            |                             |           |
| Hold            |                             |           |
| Hold            |                             |           |
| Hold            |                             |           |
| Hold            |                             | -10       |
| Hold            |                             |           |
| Hold            |                             |           |
| Hold            |                             |           |
| Hold            |                             |           |
| Hold            |                             |           |
| Hold            |                             |           |

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)  
 Date Needed:  
 Transmit Prelim Rush Results by (complete what you want):  
 Email #1:  
 Email #2:  
 Telephone:  
 Fax:

Relinquished By: [Signature] Date/Time: 7/12 17:00  
 Relinquished By: [Signature] Date/Time: 10:41  
 Relinquished By: [Signature] Date/Time:  
 Relinquished By: [Signature] Date/Time:  
 Relinquished By: [Signature] Date/Time:

Received By: ATC Storage Date/Time: 7/12 17:00  
 Received By: Sammy Deane Date/Time: 7/12/19 10:41  
 Received By: [Signature] Date/Time: 7/12/19 8:45  
 Received By: [Signature] Date/Time:

PACE Project No.  
 Receipt Temp = 2.0 °C  
 Sample Receipt pH OK / Adjusted  
 Cooler Custody Seal Present / Not Present Intact / Not Intact

Samples on HOLD are subject to special pricing and release of liability

RAD SCREEN: <0.5 mR/hr

240.1 = 2.3 Ino2

**Pace Analytical National Center for Testing & Innovation  
Cooler Receipt Form**

|   |             |                |
|---|-------------|----------------|
| Client: <i>ATC NMI</i>                    | SDG#:       | <i>1120049</i> |
| Cooler Received/Opened On: <i>7/17/19</i> | <i>Temp</i> | <i>2.0</i>     |
| Received By: Paul Minnich                 |             |                |
| Signature: <i>[Signature]</i>             |             |                |

| Receipt Check List              | NP | Yes                                 | No |
|---------------------------------|----|-------------------------------------|----|
| COC Seal Present / Intact?      |    |                                     |    |
| COC Signed / Accurate?          |    | <input checked="" type="checkbox"/> |    |
| Bottles arrive intact?          |    | <input checked="" type="checkbox"/> |    |
| Correct bottles used?           |    | <input checked="" type="checkbox"/> |    |
| Sufficient volume sent?         |    | <input checked="" type="checkbox"/> |    |
| If Applicable                   |    |                                     |    |
| VOA Zero headspace?             |    |                                     |    |
| Preservation Correct / Checked? |    |                                     |    |

64002117

**Katie Ingram**

---

**From:** Mark Beasley  
**Sent:** Thursday, July 18, 2019 8:11 AM  
**To:** Troy Dunlap; Project Service  
**Subject:** RE: ATCNMI HOLD COC

Log hold samples per email.

Thanks  
Mark

---

**From:** Troy Dunlap  
**Sent:** Thursday, July 18, 2019 7:57 AM  
**To:** Mark Beasley; Project Service  
**Subject:** ATCNMI HOLD COC

**Troy Dunlap**  
**Team Lead for Project Service**

Pace Analytical National Center for Testing & Innovation  
12065 Lebanon Road | Mt. Juliet, TN 37122  
615.773.9733  
[tdunlap@pacenational.com](mailto:tdunlap@pacenational.com) | [pacenational.com](http://pacenational.com)

Notice: This communication and any attached files may contain privileged or other confidential information. If you have received this in error, please contact the sender immediately via reply email and immediately delete the message and any attachments without copying or disclosing the contents. Thank you.



July 29, 2019

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## ATC Group Services - Novi, MI

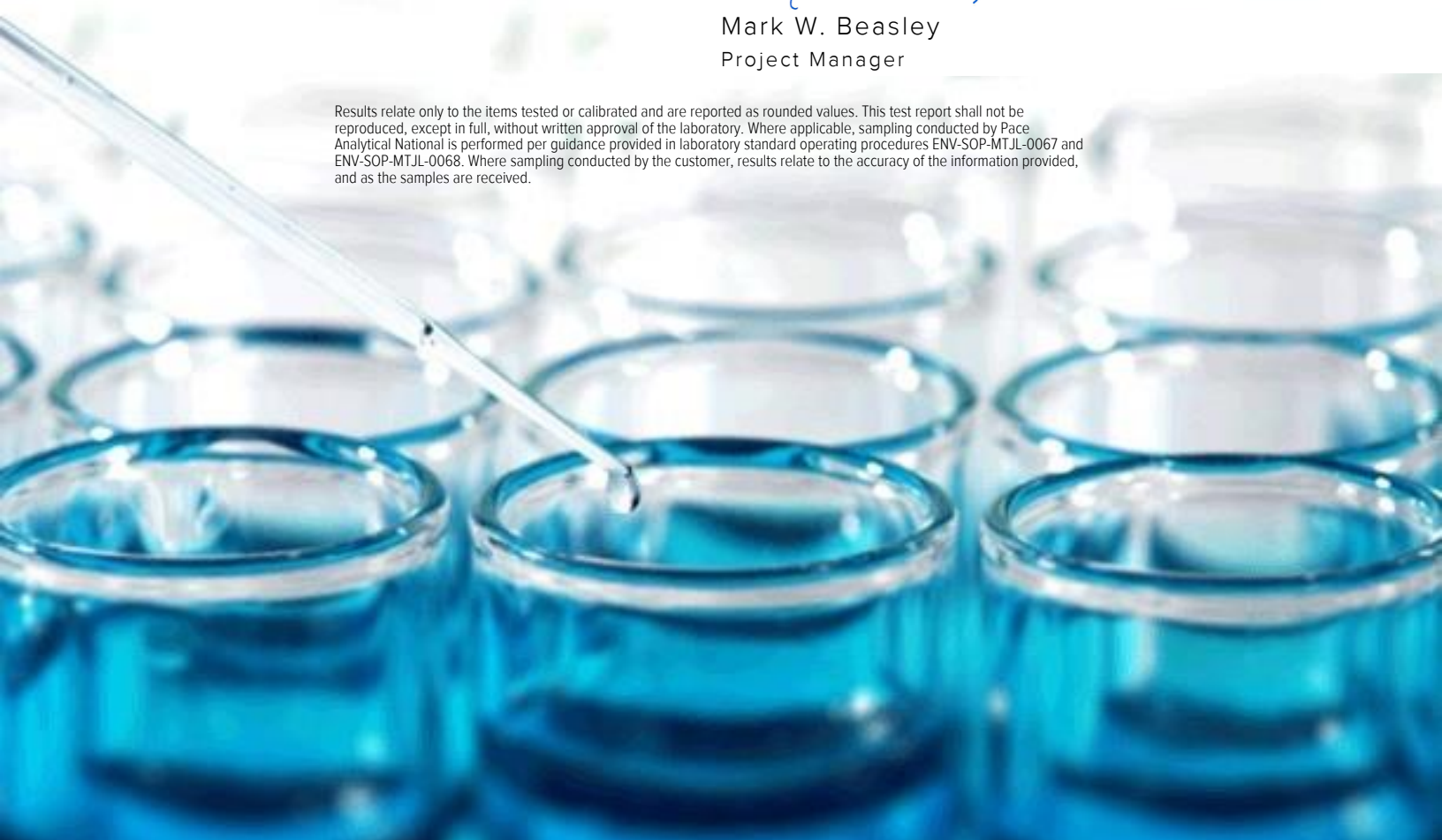
Sample Delivery Group: L1121885  
Samples Received: 07/17/2019  
Project Number: NPJBD19002  
Description: Donaldson/Ferndale Soil Gas

Report To: Gerard DeBusschere  
46555 Humboldt Drive Suite 100  
Novi, MI 48377

Entire Report Reviewed By:

Mark W. Beasley  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.





|  |           |             |
|--|-----------|-------------|
| <b>Cp: Cover Page</b>                              | <b>1</b>  | <b>1</b> Cp |
| <b>Tc: Table of Contents</b>                       | <b>2</b>  |             |
| <b>Ss: Sample Summary</b>                          | <b>3</b>  | <b>2</b> Tc |
| <b>Cn: Case Narrative</b>                          | <b>4</b>  |             |
| <b>Sr: Sample Results</b>                          | <b>5</b>  | <b>3</b> Ss |
| B-3 4-5 L1121885-01                                | <b>5</b>  |             |
| C-3 4-5 L1121885-02                                | <b>7</b>  | <b>4</b> Cn |
| C-4 4-5 L1121885-03                                | <b>9</b>  | <b>5</b> Sr |
| E-4 4-5 L1121885-04                                | <b>11</b> |             |
| F-4 4-5 L1121885-05                                | <b>13</b> | <b>6</b> Qc |
| <b>Qc: Quality Control Summary</b>                 | <b>15</b> | <b>7</b> Gl |
| Total Solids by Method 2540 G-2011                 | <b>15</b> |             |
| Mercury by Method 7471A                            | <b>16</b> | <b>8</b> Al |
| Volatile Organic Compounds (GC/MS) by Method 8260B | <b>18</b> |             |
| <b>Gl: Glossary of Terms</b>                       | <b>22</b> | <b>9</b> Sc |
| <b>Al: Accreditations &amp; Locations</b>          | <b>23</b> |             |
| <b>Sc: Sample Chain of Custody</b>                 | <b>24</b> |             |

# SAMPLE SUMMARY



## B-3 4-5 L1121885-01 Solid

|  |           |          |                       | Collected by       | Collected date/time | Received date/time |
|--|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|  |           |          |                       | IA                 | 07/12/19 14:00      | 07/17/19 08:45     |
| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Total Solids by Method 2540 G-2011                 | WG1318327 | 1        | 07/29/19 08:32        | 07/29/19 08:43     | KBC                 | Mt. Juliet, TN     |
| Mercury by Method 7471A                            | WG1318698 | 1        | 07/28/19 16:18        | 07/28/19 19:20     | TCT                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1318178 | 1.07     | 07/12/19 14:00        | 07/26/19 17:47     | ADM                 | Mt. Juliet, TN     |

1 Cp

2 Tc

3 Ss

## C-3 4-5 L1121885-02 Solid

|  |           |          |                       | Collected by       | Collected date/time | Received date/time |
|--|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|  |           |          |                       | IA                 | 07/12/19 14:13      | 07/17/19 08:45     |
| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Total Solids by Method 2540 G-2011                 | WG1318327 | 1        | 07/29/19 08:32        | 07/29/19 08:43     | KBC                 | Mt. Juliet, TN     |
| Mercury by Method 7471A                            | WG1318698 | 1        | 07/28/19 16:18        | 07/28/19 19:27     | TCT                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1318178 | 1        | 07/12/19 14:13        | 07/26/19 18:07     | ADM                 | Mt. Juliet, TN     |

4 Cn

5 Sr

6 Qc

## C-4 4-5 L1121885-03 Solid

|  |           |          |                       | Collected by       | Collected date/time | Received date/time |
|--|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|  |           |          |                       | IA                 | 07/12/19 14:18      | 07/17/19 08:45     |
| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Total Solids by Method 2540 G-2011                 | WG1318327 | 1        | 07/29/19 08:32        | 07/29/19 08:43     | KBC                 | Mt. Juliet, TN     |
| Mercury by Method 7471A                            | WG1318092 | 1        | 07/26/19 11:21        | 07/28/19 16:20     | TCT                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1318178 | 1        | 07/12/19 14:18        | 07/26/19 18:27     | ADM                 | Mt. Juliet, TN     |

7 Gl

8 Al

9 Sc

## E-4 4-5 L1121885-04 Solid

|  |           |          |                       | Collected by       | Collected date/time | Received date/time |
|--|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|  |           |          |                       | IA                 | 07/12/19 14:40      | 07/17/19 08:45     |
| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Total Solids by Method 2540 G-2011                 | WG1318327 | 1        | 07/29/19 08:32        | 07/29/19 08:43     | KBC                 | Mt. Juliet, TN     |
| Mercury by Method 7471A                            | WG1318092 | 1        | 07/26/19 11:21        | 07/28/19 16:23     | TCT                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1318178 | 1        | 07/12/19 14:40        | 07/26/19 18:48     | ADM                 | Mt. Juliet, TN     |

## F-4 4-5 L1121885-05 Solid

|  |           |          |                       | Collected by       | Collected date/time | Received date/time |
|--|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|  |           |          |                       | IA                 | 07/12/19 14:45      | 07/17/19 08:45     |
| Method   | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Total Solids by Method 2540 G-2011                 | WG1318327 | 1        | 07/29/19 08:32        | 07/29/19 08:43     | KBC                 | Mt. Juliet, TN     |
| Mercury by Method 7471A                            | WG1318092 | 1        | 07/26/19 11:21        | 07/28/19 16:30     | TCT                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1318178 | 1        | 07/12/19 14:45        | 07/26/19 19:08     | ADM                 | Mt. Juliet, TN     |



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Mark W. Beasley  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc



Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 89.5   |           | 1        | 07/29/2019 08:43 | <a href="#">WG1318327</a> |

Mercury by Method 7471A

| Analyte | Result | Qualifier | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|----------|------------------|---------------------------|
|         | ug/kg  |           | ug/kg |          | date / time      |                           |
| Mercury | ND     |           | 30.0  | 1        | 07/28/2019 19:20 | <a href="#">WG1318698</a> |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                     | Result | Qualifier | RDL   | Dilution | Analysis         | Batch                     |
|-----------------------------|--------|-----------|-------|----------|------------------|---------------------------|
|                             | ug/kg  |           | ug/kg |          | date / time      |                           |
| Acetone                     | ND     |           | 26.8  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| Acrylonitrile               | ND     |           | 13.4  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| Benzene                     | ND     |           | 1.07  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| Bromobenzene                | ND     |           | 13.4  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| Bromodichloromethane        | ND     |           | 2.68  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| Bromoform                   | ND     |           | 26.8  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| Bromomethane                | ND     |           | 13.4  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| n-Butylbenzene              | ND     |           | 13.4  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| sec-Butylbenzene            | ND     |           | 13.4  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| tert-Butylbenzene           | ND     |           | 5.35  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| Carbon tetrachloride        | ND     |           | 5.35  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| Chlorobenzene               | ND     |           | 2.68  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| Chlorodibromomethane        | ND     |           | 2.68  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| Chloroethane                | ND     |           | 5.35  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| Chloroform                  | ND     |           | 2.68  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| Chloromethane               | ND     |           | 13.4  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| 2-Chlorotoluene             | ND     |           | 2.68  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| 4-Chlorotoluene             | ND     |           | 5.35  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 26.8  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| 1,2-Dibromoethane           | ND     |           | 2.68  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| Dibromomethane              | ND     |           | 5.35  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| 1,2-Dichlorobenzene         | ND     |           | 5.35  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| 1,3-Dichlorobenzene         | ND     |           | 5.35  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| 1,4-Dichlorobenzene         | ND     | <u>J4</u> | 5.35  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| Dichlorodifluoromethane     | ND     |           | 2.68  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| 1,1-Dichloroethane          | ND     |           | 2.68  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| 1,2-Dichloroethane          | ND     |           | 2.68  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| 1,1-Dichloroethene          | ND     |           | 2.68  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| cis-1,2-Dichloroethene      | ND     |           | 2.68  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| trans-1,2-Dichloroethene    | ND     |           | 5.35  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| 1,2-Dichloropropane         | ND     |           | 5.35  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| 1,1-Dichloropropene         | ND     |           | 2.68  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| 1,3-Dichloropropane         | ND     |           | 5.35  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| cis-1,3-Dichloropropene     | ND     |           | 2.68  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| trans-1,3-Dichloropropene   | ND     |           | 5.35  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| 2,2-Dichloropropane         | ND     |           | 2.68  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| Di-isopropyl ether          | ND     |           | 1.07  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| Ethylbenzene                | ND     |           | 2.68  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| Hexachloro-1,3-butadiene    | ND     |           | 26.8  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| Isopropylbenzene            | ND     |           | 2.68  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| p-Isopropyltoluene          | ND     |           | 5.35  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| 2-Butanone (MEK)            | ND     |           | 26.8  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| Methylene Chloride          | ND     |           | 26.8  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| 1-Methylnaphthalene         | ND     |           | 26.8  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |
| 2-Methylnaphthalene         | ND     |           | 26.8  | 1.07     | 07/26/2019 17:47 | <a href="#">WG1318178</a> |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                        | Result | Qualifier | RDL      | Dilution | Analysis date / time | Batch     |
|--------------------------------|--------|-----------|----------|----------|----------------------|-----------|
| 4-Methyl-2-pentanone (MIBK)    | ND     |           | 26.8     | 1.07     | 07/26/2019 17:47     | WG1318178 |
| Methyl tert-butyl ether        | ND     |           | 1.07     | 1.07     | 07/26/2019 17:47     | WG1318178 |
| Naphthalene                    | ND     |           | 13.4     | 1.07     | 07/26/2019 17:47     | WG1318178 |
| n-Propylbenzene                | ND     |           | 5.35     | 1.07     | 07/26/2019 17:47     | WG1318178 |
| Styrene                        | ND     |           | 13.4     | 1.07     | 07/26/2019 17:47     | WG1318178 |
| 1,1,1,2-Tetrachloroethane      | ND     |           | 2.68     | 1.07     | 07/26/2019 17:47     | WG1318178 |
| 1,1,2,2-Tetrachloroethane      | ND     |           | 2.68     | 1.07     | 07/26/2019 17:47     | WG1318178 |
| 1,1,2-Trichlorotrifluoroethane | ND     |           | 2.68     | 1.07     | 07/26/2019 17:47     | WG1318178 |
| Tetrachloroethene              | ND     |           | 2.68     | 1.07     | 07/26/2019 17:47     | WG1318178 |
| Toluene                        | ND     |           | 5.35     | 1.07     | 07/26/2019 17:47     | WG1318178 |
| 1,2,3-Trichlorobenzene         | ND     |           | 2.68     | 1.07     | 07/26/2019 17:47     | WG1318178 |
| 1,2,4-Trichlorobenzene         | ND     |           | 13.4     | 1.07     | 07/26/2019 17:47     | WG1318178 |
| 1,1,1-Trichloroethane          | ND     |           | 2.68     | 1.07     | 07/26/2019 17:47     | WG1318178 |
| 1,1,2-Trichloroethane          | ND     |           | 2.68     | 1.07     | 07/26/2019 17:47     | WG1318178 |
| Trichloroethene                | ND     |           | 1.07     | 1.07     | 07/26/2019 17:47     | WG1318178 |
| Trichlorofluoromethane         | ND     |           | 2.68     | 1.07     | 07/26/2019 17:47     | WG1318178 |
| 1,2,3-Trichloropropane         | ND     |           | 13.4     | 1.07     | 07/26/2019 17:47     | WG1318178 |
| 1,2,4-Trimethylbenzene         | ND     |           | 5.35     | 1.07     | 07/26/2019 17:47     | WG1318178 |
| 1,2,3-Trimethylbenzene         | ND     |           | 5.35     | 1.07     | 07/26/2019 17:47     | WG1318178 |
| 1,3,5-Trimethylbenzene         | ND     |           | 5.35     | 1.07     | 07/26/2019 17:47     | WG1318178 |
| Vinyl chloride                 | ND     |           | 2.68     | 1.07     | 07/26/2019 17:47     | WG1318178 |
| Xylenes, Total                 | ND     |           | 6.96     | 1.07     | 07/26/2019 17:47     | WG1318178 |
| (S) Toluene-d8                 | 107    |           | 75.0-131 |          | 07/26/2019 17:47     | WG1318178 |
| (S) 4-Bromofluorobenzene       | 101    |           | 67.0-138 |          | 07/26/2019 17:47     | WG1318178 |
| (S) 1,2-Dichloroethane-d4      | 100    |           | 70.0-130 |          | 07/26/2019 17:47     | WG1318178 |

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc



Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 90.0   |           | 1        | 07/29/2019 08:43 | <a href="#">WG1318327</a> |

Mercury by Method 7471A

| Analyte | Result | Qualifier | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|----------|------------------|---------------------------|
|         | ug/kg  |           | ug/kg |          | date / time      |                           |
| Mercury | 584    |           | 30.0  | 1        | 07/28/2019 19:27 | <a href="#">WG1318698</a> |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                     | Result | Qualifier | RDL   | Dilution | Analysis         | Batch                     |
|-----------------------------|--------|-----------|-------|----------|------------------|---------------------------|
|                             | ug/kg  |           | ug/kg |          | date / time      |                           |
| Acetone                     | ND     |           | 25.0  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| Acrylonitrile               | ND     |           | 12.5  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| Benzene                     | ND     |           | 1.00  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| Bromobenzene                | ND     |           | 12.5  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| Bromodichloromethane        | ND     |           | 2.50  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| Bromoform                   | ND     |           | 25.0  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| Bromomethane                | ND     |           | 12.5  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| n-Butylbenzene              | ND     |           | 12.5  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| sec-Butylbenzene            | ND     |           | 12.5  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| tert-Butylbenzene           | ND     |           | 5.00  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| Carbon tetrachloride        | ND     |           | 5.00  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| Chlorobenzene               | ND     |           | 2.50  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| Chlorodibromomethane        | ND     |           | 2.50  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| Chloroethane                | ND     |           | 5.00  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| Chloroform                  | ND     |           | 2.50  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| Chloromethane               | ND     |           | 12.5  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| 2-Chlorotoluene             | ND     |           | 2.50  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| 4-Chlorotoluene             | ND     |           | 5.00  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 25.0  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| 1,2-Dibromoethane           | ND     |           | 2.50  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| Dibromomethane              | ND     |           | 5.00  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| 1,2-Dichlorobenzene         | 14.4   |           | 5.00  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| 1,3-Dichlorobenzene         | ND     |           | 5.00  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| 1,4-Dichlorobenzene         | ND     | <u>J4</u> | 5.00  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| Dichlorodifluoromethane     | ND     |           | 2.50  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| 1,1-Dichloroethane          | ND     |           | 2.50  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| 1,2-Dichloroethane          | ND     |           | 2.50  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| 1,1-Dichloroethene          | ND     |           | 2.50  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| cis-1,2-Dichloroethene      | ND     |           | 2.50  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| trans-1,2-Dichloroethene    | ND     |           | 5.00  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| 1,2-Dichloropropane         | ND     |           | 5.00  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| 1,1-Dichloropropene         | ND     |           | 2.50  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| 1,3-Dichloropropane         | ND     |           | 5.00  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| cis-1,3-Dichloropropene     | ND     |           | 2.50  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| trans-1,3-Dichloropropene   | ND     |           | 5.00  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| 2,2-Dichloropropane         | ND     |           | 2.50  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| Di-isopropyl ether          | ND     |           | 1.00  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| Ethylbenzene                | 18.3   |           | 2.50  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| Hexachloro-1,3-butadiene    | ND     |           | 25.0  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| Isopropylbenzene            | ND     |           | 2.50  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| p-Isopropyltoluene          | ND     |           | 5.00  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| 2-Butanone (MEK)            | ND     |           | 25.0  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| Methylene Chloride          | ND     |           | 25.0  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| 1-Methylnaphthalene         | 44.5   |           | 25.0  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |
| 2-Methylnaphthalene         | 31.5   |           | 25.0  | 1        | 07/26/2019 18:07 | <a href="#">WG1318178</a> |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 07/12/19 14:13

L1121885

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                        | Result<br>ug/kg | Qualifier | RDL<br>ug/kg | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| 4-Methyl-2-pentanone (MIBK)    | ND              |           | 25.0         | 1        | 07/26/2019 18:07        | <a href="#">WG1318178</a> |
| Methyl tert-butyl ether        | ND              |           | 1.00         | 1        | 07/26/2019 18:07        | <a href="#">WG1318178</a> |
| Naphthalene                    | 48.0            |           | 12.5         | 1        | 07/26/2019 18:07        | <a href="#">WG1318178</a> |
| n-Propylbenzene                | ND              |           | 5.00         | 1        | 07/26/2019 18:07        | <a href="#">WG1318178</a> |
| Styrene                        | ND              |           | 12.5         | 1        | 07/26/2019 18:07        | <a href="#">WG1318178</a> |
| 1,1,1,2-Tetrachloroethane      | ND              |           | 2.50         | 1        | 07/26/2019 18:07        | <a href="#">WG1318178</a> |
| 1,1,2,2-Tetrachloroethane      | ND              |           | 2.50         | 1        | 07/26/2019 18:07        | <a href="#">WG1318178</a> |
| 1,1,2-Trichlorotrifluoroethane | ND              |           | 2.50         | 1        | 07/26/2019 18:07        | <a href="#">WG1318178</a> |
| Tetrachloroethene              | ND              |           | 2.50         | 1        | 07/26/2019 18:07        | <a href="#">WG1318178</a> |
| Toluene                        | ND              |           | 5.00         | 1        | 07/26/2019 18:07        | <a href="#">WG1318178</a> |
| 1,2,3-Trichlorobenzene         | ND              |           | 2.50         | 1        | 07/26/2019 18:07        | <a href="#">WG1318178</a> |
| 1,2,4-Trichlorobenzene         | ND              |           | 12.5         | 1        | 07/26/2019 18:07        | <a href="#">WG1318178</a> |
| 1,1,1-Trichloroethane          | ND              |           | 2.50         | 1        | 07/26/2019 18:07        | <a href="#">WG1318178</a> |
| 1,1,2-Trichloroethane          | ND              |           | 2.50         | 1        | 07/26/2019 18:07        | <a href="#">WG1318178</a> |
| Trichloroethene                | 6.28            |           | 1.00         | 1        | 07/26/2019 18:07        | <a href="#">WG1318178</a> |
| Trichlorofluoromethane         | 18.9            |           | 2.50         | 1        | 07/26/2019 18:07        | <a href="#">WG1318178</a> |
| 1,2,3-Trichloropropane         | ND              |           | 12.5         | 1        | 07/26/2019 18:07        | <a href="#">WG1318178</a> |
| 1,2,4-Trimethylbenzene         | ND              |           | 5.00         | 1        | 07/26/2019 18:07        | <a href="#">WG1318178</a> |
| 1,2,3-Trimethylbenzene         | ND              |           | 5.00         | 1        | 07/26/2019 18:07        | <a href="#">WG1318178</a> |
| 1,3,5-Trimethylbenzene         | ND              |           | 5.00         | 1        | 07/26/2019 18:07        | <a href="#">WG1318178</a> |
| Vinyl chloride                 | ND              |           | 2.50         | 1        | 07/26/2019 18:07        | <a href="#">WG1318178</a> |
| Xylenes, Total                 | 97.5            |           | 6.50         | 1        | 07/26/2019 18:07        | <a href="#">WG1318178</a> |
| (S) Toluene-d8                 | 107             |           | 75.0-131     |          | 07/26/2019 18:07        | <a href="#">WG1318178</a> |
| (S) 4-Bromofluorobenzene       | 103             |           | 67.0-138     |          | 07/26/2019 18:07        | <a href="#">WG1318178</a> |
| (S) 1,2-Dichloroethane-d4      | 103             |           | 70.0-130     |          | 07/26/2019 18:07        | <a href="#">WG1318178</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 87.3   |           | 1        | 07/29/2019 08:43 | <a href="#">WG1318327</a> |

## Mercury by Method 7471A

| Analyte | Result | Qualifier | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|----------|------------------|---------------------------|
|         | ug/kg  |           | ug/kg |          | date / time      |                           |
| Mercury | 481    |           | 30.0  | 1        | 07/28/2019 16:20 | <a href="#">WG1318092</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                     | Result | Qualifier | RDL   | Dilution | Analysis         | Batch                     |
|-----------------------------|--------|-----------|-------|----------|------------------|---------------------------|
|                             | ug/kg  |           | ug/kg |          | date / time      |                           |
| Acetone                     | ND     |           | 25.0  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| Acrylonitrile               | ND     |           | 12.5  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| Benzene                     | ND     |           | 1.00  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| Bromobenzene                | ND     |           | 12.5  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| Bromodichloromethane        | ND     |           | 2.50  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| Bromoform                   | ND     |           | 25.0  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| Bromomethane                | ND     |           | 12.5  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| n-Butylbenzene              | ND     |           | 12.5  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| sec-Butylbenzene            | ND     |           | 12.5  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| tert-Butylbenzene           | ND     |           | 5.00  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| Carbon tetrachloride        | ND     |           | 5.00  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| Chlorobenzene               | ND     |           | 2.50  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| Chlorodibromomethane        | ND     |           | 2.50  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| Chloroethane                | ND     |           | 5.00  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| Chloroform                  | ND     |           | 2.50  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| Chloromethane               | ND     |           | 12.5  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| 2-Chlorotoluene             | ND     |           | 2.50  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| 4-Chlorotoluene             | ND     |           | 5.00  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 25.0  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| 1,2-Dibromoethane           | ND     |           | 2.50  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| Dibromomethane              | ND     |           | 5.00  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| 1,2-Dichlorobenzene         | ND     |           | 5.00  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| 1,3-Dichlorobenzene         | ND     |           | 5.00  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| 1,4-Dichlorobenzene         | ND     | <u>J4</u> | 5.00  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| Dichlorodifluoromethane     | ND     |           | 2.50  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| 1,1-Dichloroethane          | ND     |           | 2.50  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| 1,2-Dichloroethane          | ND     |           | 2.50  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| 1,1-Dichloroethene          | ND     |           | 2.50  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| cis-1,2-Dichloroethene      | ND     |           | 2.50  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| trans-1,2-Dichloroethene    | ND     |           | 5.00  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| 1,2-Dichloropropane         | ND     |           | 5.00  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| 1,1-Dichloropropene         | ND     |           | 2.50  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| 1,3-Dichloropropane         | ND     |           | 5.00  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| cis-1,3-Dichloropropene     | ND     |           | 2.50  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| trans-1,3-Dichloropropene   | ND     |           | 5.00  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| 2,2-Dichloropropane         | ND     |           | 2.50  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| Di-isopropyl ether          | ND     |           | 1.00  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| Ethylbenzene                | ND     |           | 2.50  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| Hexachloro-1,3-butadiene    | ND     |           | 25.0  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| Isopropylbenzene            | ND     |           | 2.50  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| p-Isopropyltoluene          | ND     |           | 5.00  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| 2-Butanone (MEK)            | ND     |           | 25.0  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| Methylene Chloride          | ND     |           | 25.0  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| 1-Methylnaphthalene         | 41.9   |           | 25.0  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |
| 2-Methylnaphthalene         | 38.7   |           | 25.0  | 1        | 07/26/2019 18:27 | <a href="#">WG1318178</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 07/12/19 14:18

L1121885

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                        | Result<br>ug/kg | Qualifier | RDL<br>ug/kg | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| 4-Methyl-2-pentanone (MIBK)    | ND              |           | 25.0         | 1        | 07/26/2019 18:27        | <a href="#">WG1318178</a> |
| Methyl tert-butyl ether        | ND              |           | 1.00         | 1        | 07/26/2019 18:27        | <a href="#">WG1318178</a> |
| Naphthalene                    | 24.2            |           | 12.5         | 1        | 07/26/2019 18:27        | <a href="#">WG1318178</a> |
| n-Propylbenzene                | ND              |           | 5.00         | 1        | 07/26/2019 18:27        | <a href="#">WG1318178</a> |
| Styrene                        | ND              |           | 12.5         | 1        | 07/26/2019 18:27        | <a href="#">WG1318178</a> |
| 1,1,1,2-Tetrachloroethane      | ND              |           | 2.50         | 1        | 07/26/2019 18:27        | <a href="#">WG1318178</a> |
| 1,1,2,2-Tetrachloroethane      | ND              |           | 2.50         | 1        | 07/26/2019 18:27        | <a href="#">WG1318178</a> |
| 1,1,2-Trichlorotrifluoroethane | ND              |           | 2.50         | 1        | 07/26/2019 18:27        | <a href="#">WG1318178</a> |
| Tetrachloroethene              | ND              |           | 2.50         | 1        | 07/26/2019 18:27        | <a href="#">WG1318178</a> |
| Toluene                        | ND              |           | 5.00         | 1        | 07/26/2019 18:27        | <a href="#">WG1318178</a> |
| 1,2,3-Trichlorobenzene         | ND              |           | 2.50         | 1        | 07/26/2019 18:27        | <a href="#">WG1318178</a> |
| 1,2,4-Trichlorobenzene         | ND              |           | 12.5         | 1        | 07/26/2019 18:27        | <a href="#">WG1318178</a> |
| 1,1,1-Trichloroethane          | ND              |           | 2.50         | 1        | 07/26/2019 18:27        | <a href="#">WG1318178</a> |
| 1,1,2-Trichloroethane          | ND              |           | 2.50         | 1        | 07/26/2019 18:27        | <a href="#">WG1318178</a> |
| Trichloroethene                | 13.8            |           | 1.00         | 1        | 07/26/2019 18:27        | <a href="#">WG1318178</a> |
| Trichlorofluoromethane         | 7.58            |           | 2.50         | 1        | 07/26/2019 18:27        | <a href="#">WG1318178</a> |
| 1,2,3-Trichloropropane         | ND              |           | 12.5         | 1        | 07/26/2019 18:27        | <a href="#">WG1318178</a> |
| 1,2,4-Trimethylbenzene         | ND              |           | 5.00         | 1        | 07/26/2019 18:27        | <a href="#">WG1318178</a> |
| 1,2,3-Trimethylbenzene         | ND              |           | 5.00         | 1        | 07/26/2019 18:27        | <a href="#">WG1318178</a> |
| 1,3,5-Trimethylbenzene         | ND              |           | 5.00         | 1        | 07/26/2019 18:27        | <a href="#">WG1318178</a> |
| Vinyl chloride                 | ND              |           | 2.50         | 1        | 07/26/2019 18:27        | <a href="#">WG1318178</a> |
| Xylenes, Total                 | 6.94            |           | 6.50         | 1        | 07/26/2019 18:27        | <a href="#">WG1318178</a> |
| (S) Toluene-d8                 | 108             |           | 75.0-131     |          | 07/26/2019 18:27        | <a href="#">WG1318178</a> |
| (S) 4-Bromofluorobenzene       | 106             |           | 67.0-138     |          | 07/26/2019 18:27        | <a href="#">WG1318178</a> |
| (S) 1,2-Dichloroethane-d4      | 99.8            |           | 70.0-130     |          | 07/26/2019 18:27        | <a href="#">WG1318178</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 87.4   |           | 1        | 07/29/2019 08:43 | <a href="#">WG1318327</a> |

## Mercury by Method 7471A

| Analyte | Result | Qualifier | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|----------|------------------|---------------------------|
|         | ug/kg  |           | ug/kg |          | date / time      |                           |
| Mercury | 356    |           | 30.0  | 1        | 07/28/2019 16:23 | <a href="#">WG1318092</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                     | Result | Qualifier | RDL   | Dilution | Analysis         | Batch                     |
|-----------------------------|--------|-----------|-------|----------|------------------|---------------------------|
|                             | ug/kg  |           | ug/kg |          | date / time      |                           |
| Acetone                     | ND     |           | 25.0  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| Acrylonitrile               | ND     |           | 12.5  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| Benzene                     | ND     |           | 1.00  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| Bromobenzene                | ND     |           | 12.5  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| Bromodichloromethane        | ND     |           | 2.50  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| Bromoform                   | ND     |           | 25.0  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| Bromomethane                | ND     |           | 12.5  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| n-Butylbenzene              | ND     |           | 12.5  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| sec-Butylbenzene            | ND     |           | 12.5  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| tert-Butylbenzene           | ND     |           | 5.00  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| Carbon tetrachloride        | ND     |           | 5.00  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| Chlorobenzene               | ND     |           | 2.50  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| Chlorodibromomethane        | ND     |           | 2.50  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| Chloroethane                | ND     |           | 5.00  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| Chloroform                  | ND     |           | 2.50  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| Chloromethane               | ND     |           | 12.5  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| 2-Chlorotoluene             | ND     |           | 2.50  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| 4-Chlorotoluene             | ND     |           | 5.00  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 25.0  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| 1,2-Dibromoethane           | ND     |           | 2.50  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| Dibromomethane              | ND     |           | 5.00  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| 1,2-Dichlorobenzene         | ND     |           | 5.00  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| 1,3-Dichlorobenzene         | ND     |           | 5.00  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| 1,4-Dichlorobenzene         | ND     | <u>J4</u> | 5.00  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| Dichlorodifluoromethane     | ND     |           | 2.50  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| 1,1-Dichloroethane          | ND     |           | 2.50  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| 1,2-Dichloroethane          | ND     |           | 2.50  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| 1,1-Dichloroethene          | ND     |           | 2.50  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| cis-1,2-Dichloroethene      | ND     |           | 2.50  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| trans-1,2-Dichloroethene    | ND     |           | 5.00  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| 1,2-Dichloropropane         | ND     |           | 5.00  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| 1,1-Dichloropropene         | ND     |           | 2.50  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| 1,3-Dichloropropane         | ND     |           | 5.00  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| cis-1,3-Dichloropropene     | ND     |           | 2.50  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| trans-1,3-Dichloropropene   | ND     |           | 5.00  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| 2,2-Dichloropropane         | ND     |           | 2.50  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| Di-isopropyl ether          | ND     |           | 1.00  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| Ethylbenzene                | ND     |           | 2.50  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| Hexachloro-1,3-butadiene    | ND     |           | 25.0  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| Isopropylbenzene            | ND     |           | 2.50  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| p-Isopropyltoluene          | ND     |           | 5.00  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| 2-Butanone (MEK)            | ND     |           | 25.0  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| Methylene Chloride          | ND     |           | 25.0  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| 1-Methylnaphthalene         | ND     |           | 25.0  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |
| 2-Methylnaphthalene         | 26.5   |           | 25.0  | 1        | 07/26/2019 18:48 | <a href="#">WG1318178</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 07/12/19 14:40

L1121885

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                        | Result<br>ug/kg | Qualifier | RDL<br>ug/kg | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| 4-Methyl-2-pentanone (MIBK)    | ND              |           | 25.0         | 1        | 07/26/2019 18:48        | <a href="#">WG1318178</a> |
| Methyl tert-butyl ether        | ND              |           | 1.00         | 1        | 07/26/2019 18:48        | <a href="#">WG1318178</a> |
| Naphthalene                    | 19.1            |           | 12.5         | 1        | 07/26/2019 18:48        | <a href="#">WG1318178</a> |
| n-Propylbenzene                | ND              |           | 5.00         | 1        | 07/26/2019 18:48        | <a href="#">WG1318178</a> |
| Styrene                        | ND              |           | 12.5         | 1        | 07/26/2019 18:48        | <a href="#">WG1318178</a> |
| 1,1,1,2-Tetrachloroethane      | ND              |           | 2.50         | 1        | 07/26/2019 18:48        | <a href="#">WG1318178</a> |
| 1,1,2,2-Tetrachloroethane      | ND              |           | 2.50         | 1        | 07/26/2019 18:48        | <a href="#">WG1318178</a> |
| 1,1,2-Trichlorotrifluoroethane | ND              |           | 2.50         | 1        | 07/26/2019 18:48        | <a href="#">WG1318178</a> |
| Tetrachloroethene              | ND              |           | 2.50         | 1        | 07/26/2019 18:48        | <a href="#">WG1318178</a> |
| Toluene                        | ND              |           | 5.00         | 1        | 07/26/2019 18:48        | <a href="#">WG1318178</a> |
| 1,2,3-Trichlorobenzene         | ND              |           | 2.50         | 1        | 07/26/2019 18:48        | <a href="#">WG1318178</a> |
| 1,2,4-Trichlorobenzene         | ND              |           | 12.5         | 1        | 07/26/2019 18:48        | <a href="#">WG1318178</a> |
| 1,1,1-Trichloroethane          | ND              |           | 2.50         | 1        | 07/26/2019 18:48        | <a href="#">WG1318178</a> |
| 1,1,2-Trichloroethane          | ND              |           | 2.50         | 1        | 07/26/2019 18:48        | <a href="#">WG1318178</a> |
| Trichloroethene                | 3.43            |           | 1.00         | 1        | 07/26/2019 18:48        | <a href="#">WG1318178</a> |
| Trichlorofluoromethane         | 7.62            |           | 2.50         | 1        | 07/26/2019 18:48        | <a href="#">WG1318178</a> |
| 1,2,3-Trichloropropane         | ND              |           | 12.5         | 1        | 07/26/2019 18:48        | <a href="#">WG1318178</a> |
| 1,2,4-Trimethylbenzene         | ND              |           | 5.00         | 1        | 07/26/2019 18:48        | <a href="#">WG1318178</a> |
| 1,2,3-Trimethylbenzene         | ND              |           | 5.00         | 1        | 07/26/2019 18:48        | <a href="#">WG1318178</a> |
| 1,3,5-Trimethylbenzene         | ND              |           | 5.00         | 1        | 07/26/2019 18:48        | <a href="#">WG1318178</a> |
| Vinyl chloride                 | ND              |           | 2.50         | 1        | 07/26/2019 18:48        | <a href="#">WG1318178</a> |
| Xylenes, Total                 | 20.3            |           | 6.50         | 1        | 07/26/2019 18:48        | <a href="#">WG1318178</a> |
| (S) Toluene-d8                 | 109             |           | 75.0-131     |          | 07/26/2019 18:48        | <a href="#">WG1318178</a> |
| (S) 4-Bromofluorobenzene       | 103             |           | 67.0-138     |          | 07/26/2019 18:48        | <a href="#">WG1318178</a> |
| (S) 1,2-Dichloroethane-d4      | 101             |           | 70.0-130     |          | 07/26/2019 18:48        | <a href="#">WG1318178</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 07/12/19 14:45

L1121885

Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 88.2   |           | 1        | 07/29/2019 08:43 | <a href="#">WG1318327</a> |

Mercury by Method 7471A

| Analyte | Result | Qualifier | RDL   | Dilution | Analysis         | Batch                     |
|---------|--------|-----------|-------|----------|------------------|---------------------------|
|         | ug/kg  |           | ug/kg |          | date / time      |                           |
| Mercury | 402    |           | 30.0  | 1        | 07/28/2019 16:30 | <a href="#">WG1318092</a> |

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                     | Result | Qualifier | RDL   | Dilution | Analysis         | Batch                     |
|-----------------------------|--------|-----------|-------|----------|------------------|---------------------------|
|                             | ug/kg  |           | ug/kg |          | date / time      |                           |
| Acetone                     | ND     |           | 25.0  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| Acrylonitrile               | ND     |           | 12.5  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| Benzene                     | ND     |           | 1.00  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| Bromobenzene                | ND     |           | 12.5  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| Bromodichloromethane        | ND     |           | 2.50  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| Bromoform                   | ND     |           | 25.0  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| Bromomethane                | ND     |           | 12.5  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| n-Butylbenzene              | ND     |           | 12.5  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| sec-Butylbenzene            | ND     |           | 12.5  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| tert-Butylbenzene           | ND     |           | 5.00  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| Carbon tetrachloride        | ND     |           | 5.00  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| Chlorobenzene               | ND     |           | 2.50  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| Chlorodibromomethane        | ND     |           | 2.50  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| Chloroethane                | ND     |           | 5.00  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| Chloroform                  | ND     |           | 2.50  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| Chloromethane               | ND     |           | 12.5  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| 2-Chlorotoluene             | ND     |           | 2.50  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| 4-Chlorotoluene             | ND     |           | 5.00  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 25.0  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| 1,2-Dibromoethane           | ND     |           | 2.50  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| Dibromomethane              | ND     |           | 5.00  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| 1,2-Dichlorobenzene         | ND     |           | 5.00  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| 1,3-Dichlorobenzene         | ND     |           | 5.00  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| 1,4-Dichlorobenzene         | ND     | <u>J4</u> | 5.00  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| Dichlorodifluoromethane     | ND     |           | 2.50  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| 1,1-Dichloroethane          | ND     |           | 2.50  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| 1,2-Dichloroethane          | ND     |           | 2.50  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| 1,1-Dichloroethene          | ND     |           | 2.50  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| cis-1,2-Dichloroethene      | ND     |           | 2.50  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| trans-1,2-Dichloroethene    | ND     |           | 5.00  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| 1,2-Dichloropropane         | ND     |           | 5.00  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| 1,1-Dichloropropene         | ND     |           | 2.50  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| 1,3-Dichloropropane         | ND     |           | 5.00  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| cis-1,3-Dichloropropene     | ND     |           | 2.50  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| trans-1,3-Dichloropropene   | ND     |           | 5.00  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| 2,2-Dichloropropane         | ND     |           | 2.50  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| Di-isopropyl ether          | ND     |           | 1.00  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| Ethylbenzene                | ND     |           | 2.50  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| Hexachloro-1,3-butadiene    | ND     |           | 25.0  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| Isopropylbenzene            | ND     |           | 2.50  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| p-Isopropyltoluene          | ND     |           | 5.00  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| 2-Butanone (MEK)            | ND     |           | 25.0  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| Methylene Chloride          | ND     |           | 25.0  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| 1-Methylnaphthalene         | 28.4   |           | 25.0  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |
| 2-Methylnaphthalene         | ND     |           | 25.0  | 1        | 07/26/2019 19:08 | <a href="#">WG1318178</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 07/12/19 14:45

L1121885

Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                        | Result<br>ug/kg | Qualifier | RDL<br>ug/kg | Dilution | Analysis<br>date / time | Batch                     |
|--------------------------------|-----------------|-----------|--------------|----------|-------------------------|---------------------------|
| 4-Methyl-2-pentanone (MIBK)    | ND              |           | 25.0         | 1        | 07/26/2019 19:08        | <a href="#">WG1318178</a> |
| Methyl tert-butyl ether        | ND              |           | 1.00         | 1        | 07/26/2019 19:08        | <a href="#">WG1318178</a> |
| Naphthalene                    | 32.1            |           | 12.5         | 1        | 07/26/2019 19:08        | <a href="#">WG1318178</a> |
| n-Propylbenzene                | ND              |           | 5.00         | 1        | 07/26/2019 19:08        | <a href="#">WG1318178</a> |
| Styrene                        | ND              |           | 12.5         | 1        | 07/26/2019 19:08        | <a href="#">WG1318178</a> |
| 1,1,1,2-Tetrachloroethane      | ND              |           | 2.50         | 1        | 07/26/2019 19:08        | <a href="#">WG1318178</a> |
| 1,1,2,2-Tetrachloroethane      | ND              |           | 2.50         | 1        | 07/26/2019 19:08        | <a href="#">WG1318178</a> |
| 1,1,2-Trichlorotrifluoroethane | ND              |           | 2.50         | 1        | 07/26/2019 19:08        | <a href="#">WG1318178</a> |
| Tetrachloroethene              | 5.17            |           | 2.50         | 1        | 07/26/2019 19:08        | <a href="#">WG1318178</a> |
| Toluene                        | 5.29            |           | 5.00         | 1        | 07/26/2019 19:08        | <a href="#">WG1318178</a> |
| 1,2,3-Trichlorobenzene         | ND              |           | 2.50         | 1        | 07/26/2019 19:08        | <a href="#">WG1318178</a> |
| 1,2,4-Trichlorobenzene         | ND              |           | 12.5         | 1        | 07/26/2019 19:08        | <a href="#">WG1318178</a> |
| 1,1,1-Trichloroethane          | ND              |           | 2.50         | 1        | 07/26/2019 19:08        | <a href="#">WG1318178</a> |
| 1,1,2-Trichloroethane          | ND              |           | 2.50         | 1        | 07/26/2019 19:08        | <a href="#">WG1318178</a> |
| Trichloroethene                | ND              |           | 1.00         | 1        | 07/26/2019 19:08        | <a href="#">WG1318178</a> |
| Trichlorofluoromethane         | 26.0            |           | 2.50         | 1        | 07/26/2019 19:08        | <a href="#">WG1318178</a> |
| 1,2,3-Trichloropropane         | ND              |           | 12.5         | 1        | 07/26/2019 19:08        | <a href="#">WG1318178</a> |
| 1,2,4-Trimethylbenzene         | 5.80            |           | 5.00         | 1        | 07/26/2019 19:08        | <a href="#">WG1318178</a> |
| 1,2,3-Trimethylbenzene         | ND              |           | 5.00         | 1        | 07/26/2019 19:08        | <a href="#">WG1318178</a> |
| 1,3,5-Trimethylbenzene         | ND              |           | 5.00         | 1        | 07/26/2019 19:08        | <a href="#">WG1318178</a> |
| Vinyl chloride                 | ND              |           | 2.50         | 1        | 07/26/2019 19:08        | <a href="#">WG1318178</a> |
| Xylenes, Total                 | 14.2            |           | 6.50         | 1        | 07/26/2019 19:08        | <a href="#">WG1318178</a> |
| (S) Toluene-d8                 | 109             |           | 75.0-131     |          | 07/26/2019 19:08        | <a href="#">WG1318178</a> |
| (S) 4-Bromofluorobenzene       | 103             |           | 67.0-138     |          | 07/26/2019 19:08        | <a href="#">WG1318178</a> |
| (S) 1,2-Dichloroethane-d4      | 102             |           | 70.0-130     |          | 07/26/2019 19:08        | <a href="#">WG1318178</a> |

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc



Method Blank (MB)

(MB) R3435306-1 07/29/19 08:43

| Analyte      | MB Result | MB Qualifier | MB MDL | MB RDL |
|--------------|-----------|--------------|--------|--------|
|              | %         |              | %      | %      |
| Total Solids | 0.000     |              |        |        |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1121885-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1121885-01 07/29/19 08:43 • (DUP) R3435306-3 07/29/19 08:43

| Analyte      | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|---------------|----------------|
|              | %               | %          |          | %       |               | %              |
| Total Solids | 89.5            | 89.0       | 1        | 0.558   |               | 10             |

Laboratory Control Sample (LCS)

(LCS) R3435306-2 07/29/19 08:43

| Analyte      | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|--------------|--------------|------------|----------|-------------|---------------|
|              | %            | %          | %        | %           |               |
| Total Solids | 50.0         | 50.0       | 100      | 85.0-115    |               |



Method Blank (MB)

(MB) R3435094-1 07/28/19 15:33

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------|-----------|--------------|--------|--------|
| Mercury | U         |              | 2.80   | 30.0   |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3435094-2 07/28/19 15:35 • (LCSD) R3435094-3 07/28/19 15:38

| Analyte | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD  | RPD Limits |
|---------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
| Mercury | 500          | 447        | 462         | 89.4     | 92.4      | 80.0-120    |               |                | 3.30 | 20         |

L1121304-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1121304-01 07/28/19 15:40 • (MS) R3435094-4 07/28/19 15:42 • (MSD) R3435094-5 07/28/19 15:45

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD  | RPD Limits |
|---------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Mercury | 500          | U               | 402       | 451        | 80.5    | 90.1     | 1        | 75.0-125    |              |               | 11.3 | 20         |

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





Method Blank (MB)

(MB) R3435096-1 07/28/19 18:31

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------|-----------|--------------|--------|--------|
| Mercury | U         |              | 2.80   | 30.0   |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3435096-2 07/28/19 18:33 • (LCSD) R3435096-3 07/28/19 18:35

| Analyte | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD  | RPD Limits |
|---------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
| Mercury | 500          | 450        | 456         | 89.9     | 91.2      | 80.0-120    |               |                | 1.36 | 20         |

L1121454-46 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1121454-46 07/28/19 18:38 • (MS) R3435096-4 07/28/19 18:40 • (MSD) R3435096-5 07/28/19 18:42

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD  | RPD Limits |
|---------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Mercury | 500          | ND              | 509       | 460        | 100     | 90.1     | 1        | 75.0-125    |              |               | 10.2 | 20         |



Method Blank (MB)

(MB) R3434680-3 07/26/19 10:15

| Analyte                     | MB Result | MB Qualifier | MB MDL | MB RDL |
|-----------------------------|-----------|--------------|--------|--------|
|                             | ug/kg     |              | ug/kg  | ug/kg  |
| Acetone                     | U         |              | 13.7   | 25.0   |
| Acrylonitrile               | U         |              | 1.90   | 12.5   |
| Benzene                     | U         |              | 0.400  | 1.00   |
| Bromobenzene                | U         |              | 1.05   | 12.5   |
| Bromodichloromethane        | U         |              | 0.788  | 2.50   |
| Bromoform                   | U         |              | 5.98   | 25.0   |
| Bromomethane                | U         |              | 3.70   | 12.5   |
| n-Butylbenzene              | U         |              | 3.84   | 12.5   |
| sec-Butylbenzene            | U         |              | 2.53   | 12.5   |
| tert-Butylbenzene           | U         |              | 1.55   | 5.00   |
| Carbon tetrachloride        | U         |              | 1.08   | 5.00   |
| Chlorobenzene               | U         |              | 0.573  | 2.50   |
| Chlorodibromomethane        | U         |              | 0.450  | 2.50   |
| Chloroethane                | U         |              | 1.08   | 5.00   |
| Chloroform                  | U         |              | 0.415  | 2.50   |
| Chloromethane               | U         |              | 1.39   | 12.5   |
| 2-Chlorotoluene             | U         |              | 0.920  | 2.50   |
| 4-Chlorotoluene             | U         |              | 1.13   | 5.00   |
| 1,2-Dibromo-3-Chloropropane | U         |              | 5.10   | 25.0   |
| 1,2-Dibromoethane           | U         |              | 0.525  | 2.50   |
| Dibromomethane              | U         |              | 1.00   | 5.00   |
| 1,2-Dichlorobenzene         | U         |              | 1.45   | 5.00   |
| 1,3-Dichlorobenzene         | U         |              | 1.70   | 5.00   |
| 1,4-Dichlorobenzene         | U         |              | 1.97   | 5.00   |
| Dichlorodifluoromethane     | U         |              | 0.818  | 2.50   |
| 1,1-Dichloroethane          | U         |              | 0.575  | 2.50   |
| 1,2-Dichloroethane          | U         |              | 0.475  | 2.50   |
| 1,1-Dichloroethene          | U         |              | 0.500  | 2.50   |
| cis-1,2-Dichloroethene      | U         |              | 0.690  | 2.50   |
| trans-1,2-Dichloroethene    | U         |              | 1.43   | 5.00   |
| 1,2-Dichloropropane         | U         |              | 1.27   | 5.00   |
| 1,1-Dichloropropene         | U         |              | 0.700  | 2.50   |
| 1,3-Dichloropropane         | U         |              | 1.75   | 5.00   |
| cis-1,3-Dichloropropene     | U         |              | 0.678  | 2.50   |
| trans-1,3-Dichloropropene   | U         |              | 1.53   | 5.00   |
| 2,2-Dichloropropane         | U         |              | 0.793  | 2.50   |
| Di-isopropyl ether          | U         |              | 0.350  | 1.00   |
| Ethylbenzene                | U         |              | 0.530  | 2.50   |
| Hexachloro-1,3-butadiene    | U         |              | 12.7   | 25.0   |
| Isopropylbenzene            | U         |              | 0.863  | 2.50   |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3434680-3 07/26/19 10:15

| Analyte                        | MB Result<br>ug/kg | MB Qualifier | MB MDL<br>ug/kg | MB RDL<br>ug/kg |
|--------------------------------|--------------------|--------------|-----------------|-----------------|
| p-Isopropyltoluene             | U                  |              | 2.33            | 5.00            |
| 2-Butanone (MEK)               | 27.1               |              | 12.5            | 25.0            |
| Methylene Chloride             | U                  |              | 6.64            | 25.0            |
| 4-Methyl-2-pentanone (MIBK)    | U                  |              | 10.0            | 25.0            |
| Methyl tert-butyl ether        | U                  |              | 0.295           | 1.00            |
| 1-Methylnaphthalene            | U                  |              | 8.12            | 25.0            |
| 2-Methylnaphthalene            | U                  |              | 7.60            | 25.0            |
| Naphthalene                    | U                  |              | 3.12            | 12.5            |
| n-Propylbenzene                | U                  |              | 1.18            | 5.00            |
| Styrene                        | U                  |              | 2.73            | 12.5            |
| 1,1,1,2-Tetrachloroethane      | U                  |              | 0.500           | 2.50            |
| 1,1,2,2-Tetrachloroethane      | U                  |              | 0.390           | 2.50            |
| Tetrachloroethene              | U                  |              | 0.700           | 2.50            |
| Toluene                        | U                  |              | 1.25            | 5.00            |
| 1,1,2-Trichlorotrifluoroethane | U                  |              | 0.675           | 2.50            |
| 1,2,3-Trichlorobenzene         | U                  |              | 0.625           | 2.50            |
| 1,2,4-Trichlorobenzene         | U                  |              | 4.82            | 12.5            |
| 1,1,1-Trichloroethane          | U                  |              | 0.275           | 2.50            |
| 1,1,2-Trichloroethane          | U                  |              | 0.883           | 2.50            |
| Trichloroethene                | U                  |              | 0.400           | 1.00            |
| Trichlorofluoromethane         | U                  |              | 0.500           | 2.50            |
| 1,2,3-Trichloropropane         | U                  |              | 5.10            | 12.5            |
| 1,2,3-Trimethylbenzene         | U                  |              | 1.15            | 5.00            |
| 1,2,4-Trimethylbenzene         | U                  |              | 1.16            | 5.00            |
| 1,3,5-Trimethylbenzene         | U                  |              | 1.08            | 5.00            |
| Vinyl chloride                 | U                  |              | 0.683           | 2.50            |
| Xylenes, Total                 | U                  |              | 4.78            | 6.50            |
| (S) Toluene-d8                 | 109                |              |                 | 75.0-131        |
| (S) 4-Bromofluorobenzene       | 106                |              |                 | 67.0-138        |
| (S) 1,2-Dichloroethane-d4      | 109                |              |                 | 70.0-130        |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3434680-1 07/26/19 08:52 • (LCSD) R3434680-2 07/26/19 09:13

| Analyte       | Spike Amount<br>ug/kg | LCS Result<br>ug/kg | LCSD Result<br>ug/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Acetone       | 625                   | 952                 | 900                  | 152           | 144            | 10.0-160         |               |                | 5.67     | 31              |
| Acrylonitrile | 625                   | 693                 | 665                  | 111           | 106            | 45.0-153         |               |                | 4.15     | 22              |
| Benzene       | 125                   | 93.4                | 94.6                 | 74.7          | 75.7           | 70.0-123         |               |                | 1.31     | 20              |



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3434680-1 07/26/19 08:52 • (LCSD) R3434680-2 07/26/19 09:13

| Analyte                     | Spike Amount<br>ug/kg | LCS Result<br>ug/kg | LCSD Result<br>ug/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|-----------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Bromobenzene                | 125                   | 128                 | 130                  | 103           | 104            | 73.0-121         |               |                | 1.51     | 20              |
| Bromodichloromethane        | 125                   | 116                 | 115                  | 92.8          | 91.7           | 73.0-121         |               |                | 1.22     | 20              |
| Bromoform                   | 125                   | 99.4                | 99.9                 | 79.5          | 79.9           | 64.0-132         |               |                | 0.518    | 20              |
| Bromomethane                | 125                   | 111                 | 121                  | 88.8          | 96.5           | 56.0-147         |               |                | 8.35     | 20              |
| n-Butylbenzene              | 125                   | 117                 | 117                  | 93.4          | 93.3           | 68.0-135         |               |                | 0.129    | 20              |
| sec-Butylbenzene            | 125                   | 120                 | 118                  | 95.8          | 94.5           | 74.0-130         |               |                | 1.37     | 20              |
| tert-Butylbenzene           | 125                   | 113                 | 103                  | 90.2          | 82.6           | 75.0-127         |               |                | 8.85     | 20              |
| Carbon tetrachloride        | 125                   | 118                 | 118                  | 94.3          | 94.5           | 66.0-128         |               |                | 0.296    | 20              |
| Chlorobenzene               | 125                   | 97.4                | 98.7                 | 77.9          | 79.0           | 76.0-128         |               |                | 1.38     | 20              |
| Chlorodibromomethane        | 125                   | 118                 | 117                  | 94.0          | 93.2           | 74.0-127         |               |                | 0.851    | 20              |
| Chloroethane                | 125                   | 87.4                | 96.6                 | 69.9          | 77.3           | 61.0-134         |               |                | 9.99     | 20              |
| Chloroform                  | 125                   | 104                 | 109                  | 83.3          | 87.3           | 72.0-123         |               |                | 4.66     | 20              |
| Chloromethane               | 125                   | 120                 | 121                  | 95.7          | 96.9           | 51.0-138         |               |                | 1.27     | 20              |
| 2-Chlorotoluene             | 125                   | 101                 | 114                  | 81.0          | 91.3           | 75.0-124         |               |                | 12.0     | 20              |
| 4-Chlorotoluene             | 125                   | 110                 | 113                  | 88.1          | 90.5           | 75.0-124         |               |                | 2.69     | 20              |
| 1,2-Dibromo-3-Chloropropane | 125                   | 110                 | 113                  | 88.2          | 90.2           | 59.0-130         |               |                | 2.26     | 20              |
| 1,2-Dibromoethane           | 125                   | 103                 | 98.0                 | 82.5          | 78.4           | 74.0-128         |               |                | 5.14     | 20              |
| Dibromomethane              | 125                   | 106                 | 108                  | 84.8          | 86.1           | 75.0-122         |               |                | 1.45     | 20              |
| 1,2-Dichlorobenzene         | 125                   | 106                 | 109                  | 84.5          | 86.9           | 76.0-124         |               |                | 2.74     | 20              |
| 1,3-Dichlorobenzene         | 125                   | 113                 | 116                  | 90.4          | 93.1           | 76.0-125         |               |                | 2.93     | 20              |
| 1,4-Dichlorobenzene         | 125                   | 95.7                | 96.1                 | 76.5          | 76.9           | 77.0-121         | J4            | J4             | 0.448    | 20              |
| Dichlorodifluoromethane     | 125                   | 130                 | 135                  | 104           | 108            | 43.0-156         |               |                | 4.47     | 20              |
| 1,1-Dichloroethane          | 125                   | 125                 | 127                  | 99.9          | 102            | 70.0-127         |               |                | 1.73     | 20              |
| 1,2-Dichloroethane          | 125                   | 126                 | 127                  | 101           | 101            | 65.0-131         |               |                | 0.426    | 20              |
| 1,1-Dichloroethene          | 125                   | 115                 | 115                  | 92.0          | 91.7           | 65.0-131         |               |                | 0.402    | 20              |
| cis-1,2-Dichloroethene      | 125                   | 107                 | 114                  | 85.5          | 90.9           | 73.0-125         |               |                | 6.14     | 20              |
| trans-1,2-Dichloroethene    | 125                   | 107                 | 104                  | 85.3          | 83.2           | 71.0-125         |               |                | 2.59     | 20              |
| 1,2-Dichloropropane         | 125                   | 120                 | 117                  | 95.7          | 93.4           | 74.0-125         |               |                | 2.43     | 20              |
| 1,1-Dichloropropene         | 125                   | 96.9                | 94.2                 | 77.5          | 75.4           | 73.0-125         |               |                | 2.81     | 20              |
| 1,3-Dichloropropane         | 125                   | 120                 | 118                  | 96.2          | 94.3           | 80.0-125         |               |                | 2.00     | 20              |
| cis-1,3-Dichloropropene     | 125                   | 102                 | 105                  | 81.8          | 83.6           | 76.0-127         |               |                | 2.15     | 20              |
| trans-1,3-Dichloropropene   | 125                   | 114                 | 114                  | 91.1          | 91.5           | 73.0-127         |               |                | 0.444    | 20              |
| 2,2-Dichloropropane         | 125                   | 126                 | 123                  | 101           | 98.4           | 59.0-135         |               |                | 2.21     | 20              |
| Di-isopropyl ether          | 125                   | 113                 | 112                  | 90.2          | 89.3           | 60.0-136         |               |                | 1.02     | 20              |
| Ethylbenzene                | 125                   | 109                 | 104                  | 87.1          | 83.4           | 74.0-126         |               |                | 4.40     | 20              |
| Hexachloro-1,3-butadiene    | 125                   | 102                 | 113                  | 81.3          | 90.4           | 57.0-150         |               |                | 10.6     | 20              |
| Isopropylbenzene            | 125                   | 98.9                | 94.4                 | 79.1          | 75.5           | 72.0-127         |               |                | 4.70     | 20              |
| p-Isopropyltoluene          | 125                   | 114                 | 113                  | 91.6          | 90.6           | 72.0-133         |               |                | 1.07     | 20              |
| 2-Butanone (MEK)            | 625                   | 729                 | 699                  | 117           | 112            | 30.0-160         |               |                | 4.17     | 24              |
| Methylene Chloride          | 125                   | 115                 | 111                  | 92.1          | 89.0           | 68.0-123         |               |                | 3.37     | 20              |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3434680-1 07/26/19 08:52 • (LCSD) R3434680-2 07/26/19 09:13

| Analyte                        | Spike Amount<br>ug/kg | LCS Result<br>ug/kg | LCSD Result<br>ug/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD<br>% | RPD Limits<br>% |
|--------------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| 4-Methyl-2-pentanone (MIBK)    | 625                   | 627                 | 604                  | 100           | 96.6           | 56.0-143         |                      |                       | 3.76     | 20              |
| Methyl tert-butyl ether        | 125                   | 116                 | 112                  | 93.1          | 89.9           | 66.0-132         |                      |                       | 3.49     | 20              |
| 1-Methylnaphthalene            | 125                   | 126                 | 160                  | 100           | 128            | 47.0-145         |                      |                       | 24.2     | 25              |
| 2-Methylnaphthalene            | 125                   | 147                 | 183                  | 118           | 146            | 32.0-149         |                      |                       | 21.6     | 26              |
| Naphthalene                    | 125                   | 105                 | 119                  | 84.4          | 95.5           | 59.0-130         |                      |                       | 12.3     | 20              |
| n-Propylbenzene                | 125                   | 119                 | 118                  | 95.4          | 94.6           | 74.0-126         |                      |                       | 0.883    | 20              |
| Styrene                        | 125                   | 95.9                | 96.3                 | 76.7          | 77.0           | 72.0-127         |                      |                       | 0.430    | 20              |
| 1,1,1,2-Tetrachloroethane      | 125                   | 119                 | 115                  | 94.8          | 91.8           | 74.0-129         |                      |                       | 3.27     | 20              |
| 1,1,2,2-Tetrachloroethane      | 125                   | 104                 | 110                  | 83.2          | 88.0           | 68.0-128         |                      |                       | 5.59     | 20              |
| Tetrachloroethene              | 125                   | 112                 | 113                  | 89.8          | 90.5           | 70.0-136         |                      |                       | 0.787    | 20              |
| Toluene                        | 125                   | 108                 | 106                  | 86.4          | 84.5           | 75.0-121         |                      |                       | 2.25     | 20              |
| 1,1,2-Trichlorotrifluoroethane | 125                   | 109                 | 117                  | 87.0          | 93.4           | 61.0-139         |                      |                       | 7.08     | 20              |
| 1,2,3-Trichlorobenzene         | 125                   | 115                 | 129                  | 91.6          | 104            | 59.0-139         |                      |                       | 12.2     | 20              |
| 1,2,4-Trichlorobenzene         | 125                   | 103                 | 109                  | 82.3          | 87.2           | 62.0-137         |                      |                       | 5.76     | 20              |
| 1,1,1-Trichloroethane          | 125                   | 111                 | 117                  | 88.6          | 93.5           | 69.0-126         |                      |                       | 5.34     | 20              |
| 1,1,2-Trichloroethane          | 125                   | 108                 | 107                  | 86.0          | 85.5           | 78.0-123         |                      |                       | 0.605    | 20              |
| Trichloroethene                | 125                   | 122                 | 124                  | 97.7          | 99.2           | 76.0-126         |                      |                       | 1.60     | 20              |
| Trichlorofluoromethane         | 125                   | 115                 | 119                  | 92.2          | 95.2           | 61.0-142         |                      |                       | 3.21     | 20              |
| 1,2,3-Trichloropropane         | 125                   | 123                 | 121                  | 98.6          | 96.6           | 67.0-129         |                      |                       | 1.97     | 20              |
| 1,2,3-Trimethylbenzene         | 125                   | 106                 | 108                  | 84.9          | 86.4           | 74.0-124         |                      |                       | 1.68     | 20              |
| 1,2,4-Trimethylbenzene         | 125                   | 103                 | 105                  | 82.0          | 83.8           | 70.0-126         |                      |                       | 2.12     | 20              |
| 1,3,5-Trimethylbenzene         | 125                   | 119                 | 116                  | 94.9          | 92.8           | 73.0-127         |                      |                       | 2.18     | 20              |
| Vinyl chloride                 | 125                   | 103                 | 104                  | 82.3          | 83.0           | 63.0-134         |                      |                       | 0.892    | 20              |
| Xylenes, Total                 | 375                   | 313                 | 285                  | 83.5          | 76.0           | 72.0-127         |                      | <u>J4</u>             | 9.36     | 20              |
| (S) Toluene-d8                 |                       |                     |                      | 106           | 104            | 75.0-131         |                      |                       |          |                 |
| (S) 4-Bromofluorobenzene       |                       |                     |                      | 106           | 102            | 67.0-138         |                      |                       |          |                 |
| (S) 1,2-Dichloroethane-d4      |                       |                     |                      | 109           | 108            | 70.0-130         |                      |                       |          |                 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

|                              |  |
|------------------------------|--|
| MDL                          | Method Detection Limit.  |
| ND                           | Not detected at the Reporting Limit (or MDL where applicable).   |
| RDL                          | Reported Detection Limit.  |
| Rec.                         | Recovery.  |
| RPD                          | Relative Percent Difference.   |
| SDG                          | Sample Delivery Group.   |
| (S)                          | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.   |
| U                            | Not detected at the Reporting Limit (or MDL where applicable).   |
| Analyte                      | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.   |
| Dilution                     | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.  |
| Limits                       | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.  |
| Original Sample              | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.  |
| Qualifier                    | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.  |
| Result                       | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma.   |
| Case Narrative (Cn)          | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.  |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.  |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.  |
| Sample Results (Sr)          | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.   |
| Sample Summary (Ss)          | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.  |

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

Qualifier Description

J4 The associated batch QC was outside the established quality control range for accuracy.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

|                         |             |                             |                  |
|-------------------------|-------------|-----------------------------|------------------|
| Alabama                 | 40660       | Nebraska                    | NE-OS-15-05      |
| Alaska                  | 17-026      | Nevada                      | TN-03-2002-34    |
| Arizona                 | AZ0612      | New Hampshire               | 2975             |
| Arkansas                | 88-0469     | New Jersey-NELAP            | TN002            |
| California              | 2932        | New Mexico <sup>1</sup>     | n/a              |
| Colorado                | TN00003     | New York                    | 11742            |
| Connecticut             | PH-0197     | North Carolina              | Env375           |
| Florida                 | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                 | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>    | 923         | North Dakota                | R-140            |
| Idaho                   | TN00003     | Ohio-VAP                    | CL0069           |
| Illinois                | 200008      | Oklahoma                    | 9915             |
| Indiana                 | C-TN-01     | Oregon                      | TN200002         |
| Iowa                    | 364         | Pennsylvania                | 68-02979         |
| Kansas                  | E-10277     | Rhode Island                | LA000356         |
| Kentucky <sup>1,6</sup> | 90010       | South Carolina              | 84004            |
| Kentucky <sup>2</sup>   | 16          | South Dakota                | n/a              |
| Louisiana               | AI30792     | Tennessee <sup>1,4</sup>    | 2006             |
| Louisiana <sup>1</sup>  | LA180010    | Texas                       | T104704245-18-15 |
| Maine                   | TN0002      | Texas <sup>5</sup>          | LAB0152          |
| Maryland                | 324         | Utah                        | TN00003          |
| Massachusetts           | M-TN003     | Vermont                     | VT2006           |
| Michigan                | 9958        | Virginia                    | 460132           |
| Minnesota               | 047-999-395 | Washington                  | C847             |
| Mississippi             | TN00003     | West Virginia               | 233              |
| Missouri                | 340         | Wisconsin                   | 9980939910       |
| Montana                 | CERT0086    | Wyoming                     | A2LA             |

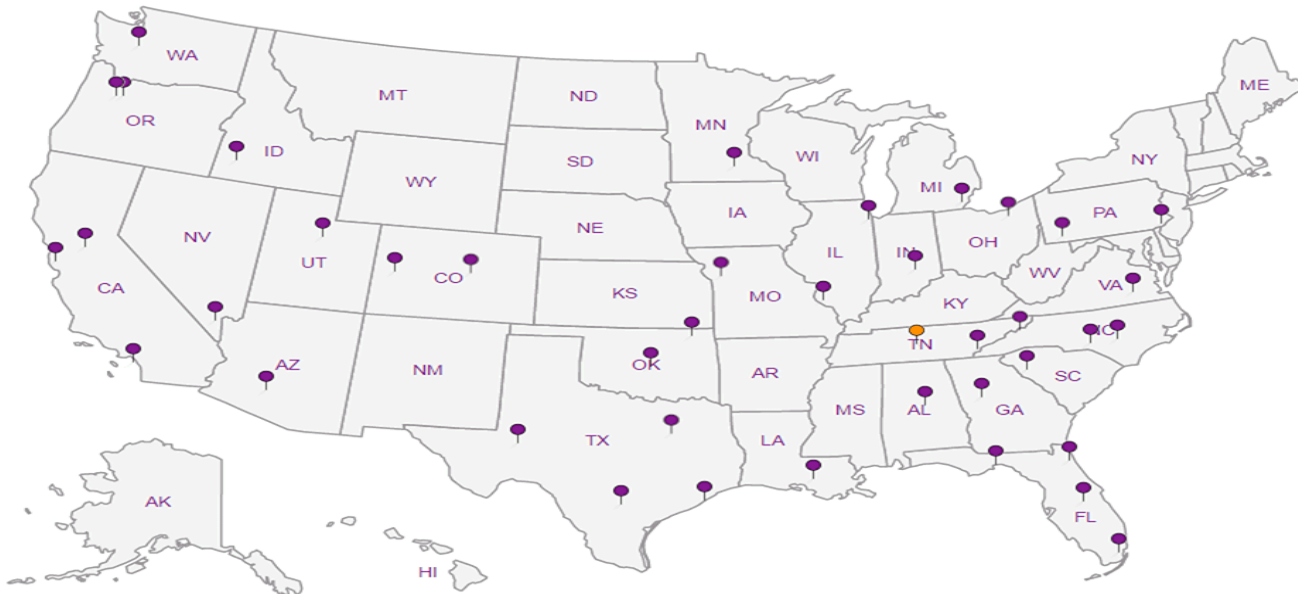
## Third Party Federal Accreditations

|                               |         |                    |               |
|-------------------------------|---------|--------------------|---------------|
| A2LA – ISO 17025              | 1461.01 | AIHA-LAP,LLC EMLAP | 100789        |
| A2LA – ISO 17025 <sup>5</sup> | 1461.02 | DOD                | 1461.01       |
| Canada                        | 1461.01 | USDA               | P330-15-00234 |
| EPA-Crypto                    | TN00003 |                    |               |

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

(Please Print Clearly)

Company Name: ATC GROUP SVCS  
 Branch/Location: NOVI  
 Project Contact: DeBussche  
 Phone: 248 963 2563  
 Project Number: NPJBD 19002  
 Project Name: Demolition/Forensic  
 Project State: MI  
 Sampled By (Print): L.A.  
 Sampled By (Sign):



### CHAIN OF CUSTODY

Preservation Codes

A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH  
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:  
 Mail To Contact:  
 Mail To Company:  
 Mail To Address:  
 Invoice To Contact:  
 Invoice To Company:  
 Invoice To Address:  
 Invoice To Phone:

Regulatory Program:  
 Data Package Options (billable)  
 EPA Level III  
 EPA Level IV  
 MS/MSD  
 On your sample (billable)  
 NOT needed on your sample  
 Matrix Codes  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 SI = Sludge WP = Wipe

| Filtered? (YES/NO) | Y/N | Pick Letter | Analyses Requested |
|--------------------|-----|-------------|--------------------|
|                    |     |             | Vols (8260)        |
|                    |     |             | Mercury            |

| PACE LAB # | CLIENT FIELD ID | COLLECTION |       | MATRIX | CLIENT COMMENTS | LAB COMMENTS (Lab Use Only) | Profile # |
|------------|-----------------|------------|-------|--------|-----------------|-----------------------------|-----------|
|            |                 | DATE       | TIME  |        |                 |                             |           |
|            | F3 4-5          | 7/12       | 11:50 | S      | HOLD            |                             |           |
|            | E3 4-5          |            | 11:54 | S      | HOLD            |                             |           |
|            | D3 4-5          |            | 11:55 | S      | HOLD            | D235                        |           |
|            | E2 4-5          |            | 11:57 | S      | HOLD            |                             |           |
|            | F1 4-5          |            | 12:00 | S      | HOLD            |                             |           |
|            | D-1 4-5         |            | 12:02 | S      | HOLD            |                             |           |
|            | D-2 4-5         |            | 12:05 | S      | HOLD            | 7-103                       |           |
|            | D-4 4-5         |            | 12:10 | S      | HOLD            |                             |           |
|            | C-1 4-5         |            | 12:15 | S      | HOLD            |                             |           |
|            | C-2 4-5         |            | 12:20 | S      | HOLD            |                             |           |
|            | B-1 4-5         |            | 12:42 | S      | HOLD            |                             |           |
|            | A-1 4-5         |            | 12:47 | S      | HOLD            |                             |           |
|            | A-2 4-5         |            | 12:52 | S      | HOLD            |                             |           |

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)  
 Date Needed: \_\_\_\_\_

Transmit Prelim Rush Results by (complete what you want):

Email #1: \_\_\_\_\_  
 Email #2: \_\_\_\_\_  
 Telephone: \_\_\_\_\_  
 Fax: \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Date/Time: 7/12 17:00  
 Received By: Atc Storage Date/Time: 7/12 17:00

Relinquished By: \_\_\_\_\_ Date/Time: 10:41  
 Received By: Jommy Deane Date/Time: 7/12/19 1041

Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: 7/17/19 8:45

Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

PACE Project No. \_\_\_\_\_  
 Receipt Temp = 2.0 °C  
 Sample Receipt pH \_\_\_\_\_  
 OK / Adjusted \_\_\_\_\_  
 Cooler Custody Seal \_\_\_\_\_  
 Present / Not Present \_\_\_\_\_  
 Intact / Not Intact \_\_\_\_\_

RAD SCREEN: <0.5 mR/hr 20-0.12.31202



(Please Print Clearly)

Company Name: ATC GROUP SVCS  
 Branch/Location: NOVI  
 Project Contact: DeBusschere  
 Phone: 248 863 2563  
 Project Number: NP5BD 19002  
 Project Name: Donaldson - Ferndale  
 Project State: MI  
 Sampled By (Print): L.A  
 Sampled By (Sign):  
 PO #:  
 Regulatory Program:



UPPER MIDWEST REGION  
 MN: 612-607-1700 WI: 920-469-2436

Page 2 of 2  
L1121885  
L120044-ke

### CHAIN OF CUSTODY

\*Preservation Codes  
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH  
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?  
(YES/NO)  
 PRESERVATION  
(CODE)\*

| Y/N | Pick Letter | Analyses Requested |
|-----|-------------|--------------------|
|     |             | Vocs               |
|     |             | Mercury            |

|                     |                             |           |
|---------------------|-----------------------------|-----------|
| Quote #:            |                             |           |
| Mail To Contact:    |                             |           |
| Mail To Company:    |                             |           |
| Mail To Address:    |                             |           |
| Invoice To Contact: |                             |           |
| Invoice To Company: |                             |           |
| Invoice To Address: |                             |           |
| Invoice To Phone:   |                             |           |
| CLIENT COMMENTS     | LAB COMMENTS (Lab Use Only) | Profile # |
| Hold                |                             |           |
| Hold                |                             |           |
| Hold                |                             |           |
| Hold                |                             |           |
| Hold                |                             | -01       |
| Hold                |                             | -02       |
| Hold                |                             |           |
| Hold                |                             |           |
| Hold                |                             |           |
| Hold                |                             |           |
| Hold                |                             |           |
| Hold                |                             |           |

Data Package Options (billable)  
 EPA Level III  
 EPA Level IV  
 MS/MSD  
 On your sample (billable)  
 NOT needed on your sample  
 Matrix Codes  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 Sl = Sludge WP = Wipe

| PACE LAB # | CLIENT FIELD ID | COLLECTION |            | MATRIX |
|------------|-----------------|------------|------------|--------|
|            |                 | DATE       | TIME       |        |
|            | A-3             | 4-5        | 7/12 12:36 | S      |
|            | A-4             | 4-5        | 7/12 13:00 | S      |
|            | B-4             | 4-5        | 13:55      | S      |
|            | B-3             | 4-5        | 14:00      | S      |
|            | B-2             | 4-5        | 14:10      | S      |
|            | C-3             | 4-5        | 14:13      | S      |
|            | C-4             | 4-5        | 14:18      | S      |
|            | E-4             | 4-5        | 14:40      | S      |
|            | F-4             | 4-5        | 14:45      | S      |
|            | DUP-1           |            |            |        |
|            | DUP-2           |            |            |        |

|   |  |  |  |
|---|--|--|--|
| Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)<br>Date Needed: | Relinquished By: <u>[Signature]</u> Date/Time: <u>7/12 17:00</u> | Received By: <u>ATC Storage</u> Date/Time: <u>7/12 17:00</u>   | PACE Project No.                             |
| Transmit Prelim Rush Results by (complete what you want):   | Relinquished By: <u>[Signature]</u> Date/Time: <u>10:44</u>      | Received By: <u>Johnny Deane</u> Date/Time: <u>7/19/04</u>     |  |
| Email #1:   | Relinquished By: Date/Time:                                      | Received By: Date/Time:  | Receipt Temp = <u>2.0</u> °C                 |
| Email #2:   | Relinquished By: Date/Time:                                      | Received By: <u>[Signature]</u> Date/Time: <u>7/17/19 8:45</u> | Sample Receipt pH<br>OK / Adjusted           |
| Telephone:  | Relinquished By: Date/Time:                                      | Received By: Date/Time:  | Cooler Custody Seal<br>Present / Not Present |
| Fax:  | Relinquished By: Date/Time:                                      | Received By: Date/Time:  | Intact / Not Intact                          |
| Samples on HOLD are subject to special pricing and release of liability                           | Relinquished By: <u>RAD SCREEN: &lt;0.5 mR/hr</u> Date/Time:     | Received By: Date/Time:  |  |

2401=2.3<sup>1902</sup>

**Pace Analytical National Center for Testing & Innovation  
Cooler Receipt Form**

|   |             |                    |                   |
|---|-------------|--------------------|-------------------|
| Client: <i>ATC NMI</i>                    | SDG#:       | <del>1120049</del> | <i>re 1121885</i> |
| Cooler Received/Opened On: <i>7/17/19</i> | <i>Temp</i> | <i>2.0</i>         |                   |
| Received By: <i>Paul Minnich</i>          |             |                    |                   |
| Signature: <i>[Signature]</i>             |             |                    |                   |

| Receipt Check List              | NP | Yes                                 | No |
|---------------------------------|----|-------------------------------------|----|
| COC Seal Present / Intact?      |    |                                     |    |
| COC Signed / Accurate?          |    | <input checked="" type="checkbox"/> |    |
| Bottles arrive intact?          |    | <input checked="" type="checkbox"/> |    |
| Correct bottles used?           |    | <input checked="" type="checkbox"/> |    |
| Sufficient volume sent?         |    | <input checked="" type="checkbox"/> |    |
| If Applicable                   |    |                                     |    |
| VOA Zero headspace?             |    |                                     |    |
| Preservation Correct / Checked? |    |                                     |    |

6420049 KR  
1121885  
Katie Ingram

---

**From:** Mark Beasley  
**Sent:** Thursday, July 18, 2019 8:11 AM  
**To:** Troy Dunlap; Project Service  
**Subject:** RE: ATCNMI HOLD COC

Log hold samples per email.

Thanks  
Mark

**From:** Troy Dunlap  
**Sent:** Thursday, July 18, 2019 7:57 AM  
**To:** Mark Beasley; Project Service  
**Subject:** ATCNMI HOLD COC

Troy Dunlap  
*Team Lead for Project Service*

Pace Analytical National Center for Testing & Innovation  
12065 Lebanon Road | Mt. Juliet, TN 37122  
615.773.9733

[tdunlap@pacenational.com](mailto:tdunlap@pacenational.com) | [pacenational.com](http://pacenational.com)

Notice: This communication and any attached files may contain privileged or other confidential information. If you have received this in error, please contact the sender immediately via reply email and immediately delete the message and any attachments without copying or disclosing the contents. Thank you.

**Katie Ingram**

---

L1121885  
M121

**From:** Mark Beasley  
**Sent:** Wednesday, July 24, 2019 2:50 PM  
**To:** Project Service  
**Subject:** L1120049 \*ATCNMI\* hold samples

Log samples B-3 4-5 and C-3 4-5 previously on hold for V8260MI, HG, TERRACORE, & TS. Log as RX due 7/31.

Thanks

**Mark Beasley**

*National Account Manager*

**Pace Analytical National Center for Testing & Innovation**  
12065 Lebanon Road | Mt. Juliet, TN 37122  
615.773.9672 | Cell 615.330.1602  
[mbeasley@pacenational.com](mailto:mbeasley@pacenational.com) | [pacenational.com](http://pacenational.com)

***ESC Lab Sciences is now Pace Analytical National Center for Testing & Innovation! Please make note of my new email address and website.***

August 01, 2019

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## ATC Group Services - Novi, MI

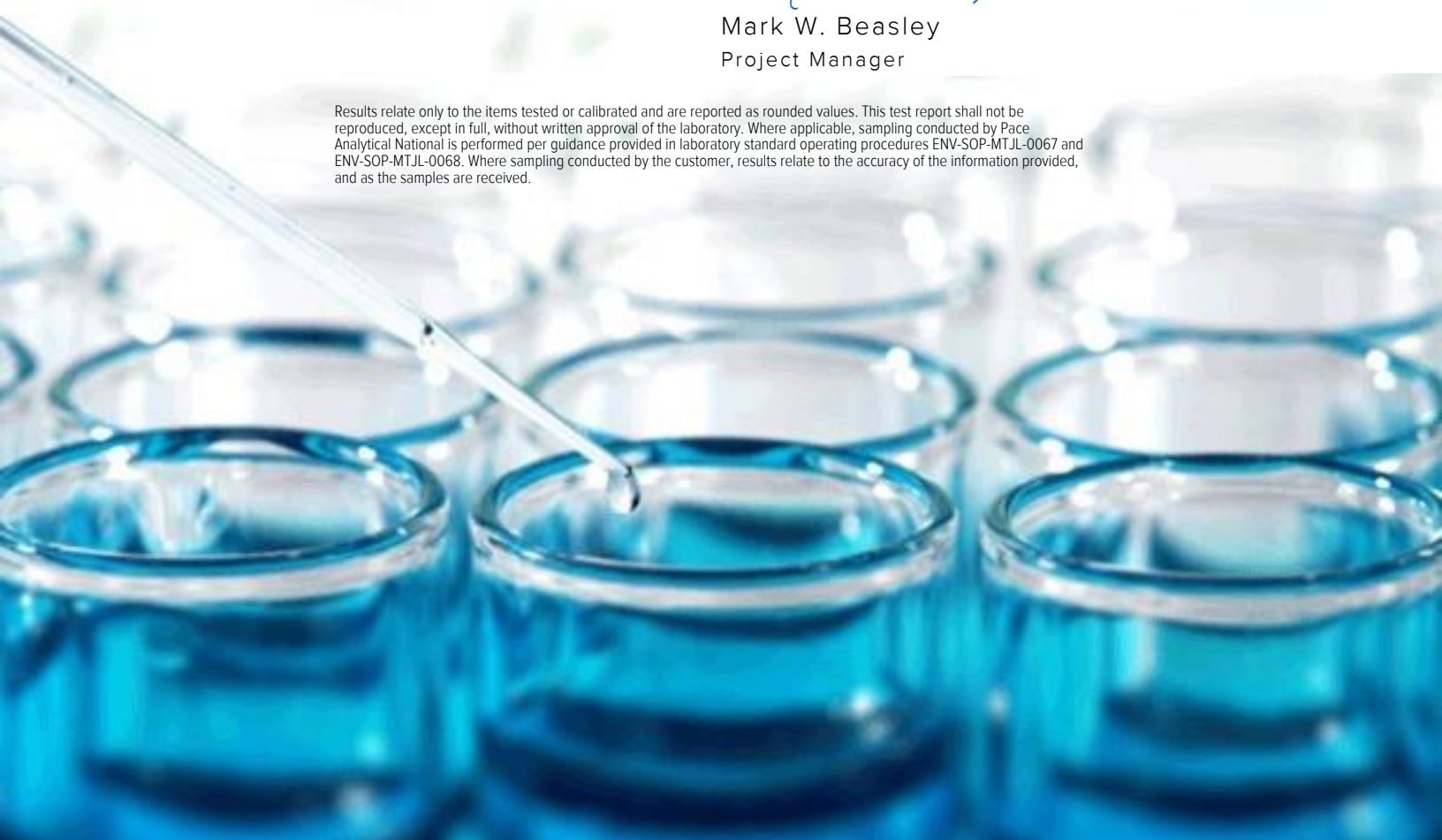
Sample Delivery Group: L1123577  
Samples Received: 07/17/2019  
Project Number: NPJBD19002  
Description: Donaldson/Ferndale Soil Gas

Report To: Gerard DeBusschere  
46555 Humboldt Drive Suite 100  
Novi, MI 48377

Entire Report Reviewed By:

Mark W. Beasley  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.





|   |          |  |
|---|----------|--|
| <b>Cp: Cover Page</b>                     | <b>1</b> |  |
| <b>Tc: Table of Contents</b>              | <b>2</b> |  |
| <b>Ss: Sample Summary</b>                 | <b>3</b> |  |
| <b>Cn: Case Narrative</b>                 | <b>4</b> |  |
| <b>Sr: Sample Results</b>                 | <b>5</b> |  |
| <b>C-3 4-5 L1123577-01</b>                | <b>5</b> |  |
| <b>Qc: Quality Control Summary</b>        | <b>6</b> |  |
| <b>Mercury by Method 7470A</b>            | <b>6</b> |  |
| <b>Gl: Glossary of Terms</b>              | <b>7</b> |  |
| <b>Al: Accreditations &amp; Locations</b> | <b>8</b> |  |
| <b>Sc: Sample Chain of Custody</b>        | <b>9</b> |  |

# SAMPLE SUMMARY



C-3 4-5 L1123577-01 Waste

Collected by: IA  
 Collected date/time: 07/12/19 14:13  
 Received date/time: 07/17/19 08:45

| Method                     | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|----------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Preparation by Method 1311 | WG1320378 | 1        | 07/31/19 08:53        | 07/31/19 08:53     | RT      | Mt. Juliet, TN |
| Mercury by Method 7470A    | WG1321105 | 1        | 08/01/19 08:44        | 08/01/19 11:38     | TRB     | Mt. Juliet, TN |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Mark W. Beasley  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc





Preparation by Method 1311

| Analyte         | Result | Qualifier | Prep date / time     | Batch     |
|-----------------|--------|-----------|----------------------|-----------|
| TCLP Extraction | -      |           | 7/31/2019 8:53:00 AM | WG1320378 |
| Fluid           | 1      |           | 7/31/2019 8:53:00 AM | WG1320378 |
| Initial pH      | 8.91   |           | 7/31/2019 8:53:00 AM | WG1320378 |
| Final pH        | 6.13   |           | 7/31/2019 8:53:00 AM | WG1320378 |

1 Cp

2 Tc

3 Ss

4 Cn

Mercury by Method 7470A

| Analyte | Result | Qualifier | RDL    | Limit | Dilution | Analysis date / time | Batch                     |
|---------|--------|-----------|--------|-------|----------|----------------------|---------------------------|
| Mercury | ND     |           | 0.0100 | 0.20  | 1        | 08/01/2019 11:38     | <a href="#">WG1321105</a> |

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3436411-1 08/01/19 11:32

| Analyte | MB Result | MB Qualifier | MB MDL  | MB RDL |
|---------|-----------|--------------|---------|--------|
| Mercury | U         |              | 0.00330 | 0.0100 |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3436411-2 08/01/19 11:34 • (LCSD) R3436411-3 08/01/19 11:36

| Analyte | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD   | RPD Limits |
|---------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-------|------------|
| Mercury | 0.0300       | 0.0319     | 0.0321      | 106      | 107       | 80.0-120    |               |                | 0.781 | 20         |

L1123577-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1123577-01 08/01/19 11:38 • (MS) R3436411-4 08/01/19 11:43 • (MSD) R3436411-5 08/01/19 11:45

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD  | RPD Limits |
|---------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Mercury | 0.0300       | ND              | 0.0293    | 0.0302     | 97.5    | 101      | 1        | 75.0-125    |              |               | 3.35 | 20         |



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

|                              |  |
|------------------------------|--|
| MDL                          | Method Detection Limit.  |
| ND                           | Not detected at the Reporting Limit (or MDL where applicable).   |
| RDL                          | Reported Detection Limit.  |
| Rec.                         | Recovery.  |
| RPD                          | Relative Percent Difference.   |
| SDG                          | Sample Delivery Group.   |
| U                            | Not detected at the Reporting Limit (or MDL where applicable).   |
| Analyte                      | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.   |
| Dilution                     | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.  |
| Limits                       | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.  |
| Original Sample              | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.  |
| Qualifier                    | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.  |
| Result                       | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma.   |
| Case Narrative (Cn)          | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.  |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.  |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.  |
| Sample Results (Sr)          | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.   |
| Sample Summary (Ss)          | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.  |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

|                         |             |                             |                  |
|-------------------------|-------------|-----------------------------|------------------|
| Alabama                 | 40660       | Nebraska                    | NE-OS-15-05      |
| Alaska                  | 17-026      | Nevada                      | TN-03-2002-34    |
| Arizona                 | AZ0612      | New Hampshire               | 2975             |
| Arkansas                | 88-0469     | New Jersey-NELAP            | TN002            |
| California              | 2932        | New Mexico <sup>1</sup>     | n/a              |
| Colorado                | TN00003     | New York                    | 11742            |
| Connecticut             | PH-0197     | North Carolina              | Env375           |
| Florida                 | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                 | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>    | 923         | North Dakota                | R-140            |
| Idaho                   | TN00003     | Ohio-VAP                    | CL0069           |
| Illinois                | 200008      | Oklahoma                    | 9915             |
| Indiana                 | C-TN-01     | Oregon                      | TN200002         |
| Iowa                    | 364         | Pennsylvania                | 68-02979         |
| Kansas                  | E-10277     | Rhode Island                | LA000356         |
| Kentucky <sup>1,6</sup> | 90010       | South Carolina              | 84004            |
| Kentucky <sup>2</sup>   | 16          | South Dakota                | n/a              |
| Louisiana               | AI30792     | Tennessee <sup>1,4</sup>    | 2006             |
| Louisiana <sup>1</sup>  | LA180010    | Texas                       | T104704245-18-15 |
| Maine                   | TN0002      | Texas <sup>5</sup>          | LAB0152          |
| Maryland                | 324         | Utah                        | TN00003          |
| Massachusetts           | M-TN003     | Vermont                     | VT2006           |
| Michigan                | 9958        | Virginia                    | 460132           |
| Minnesota               | 047-999-395 | Washington                  | C847             |
| Mississippi             | TN00003     | West Virginia               | 233              |
| Missouri                | 340         | Wisconsin                   | 9980939910       |
| Montana                 | CERT0086    | Wyoming                     | A2LA             |

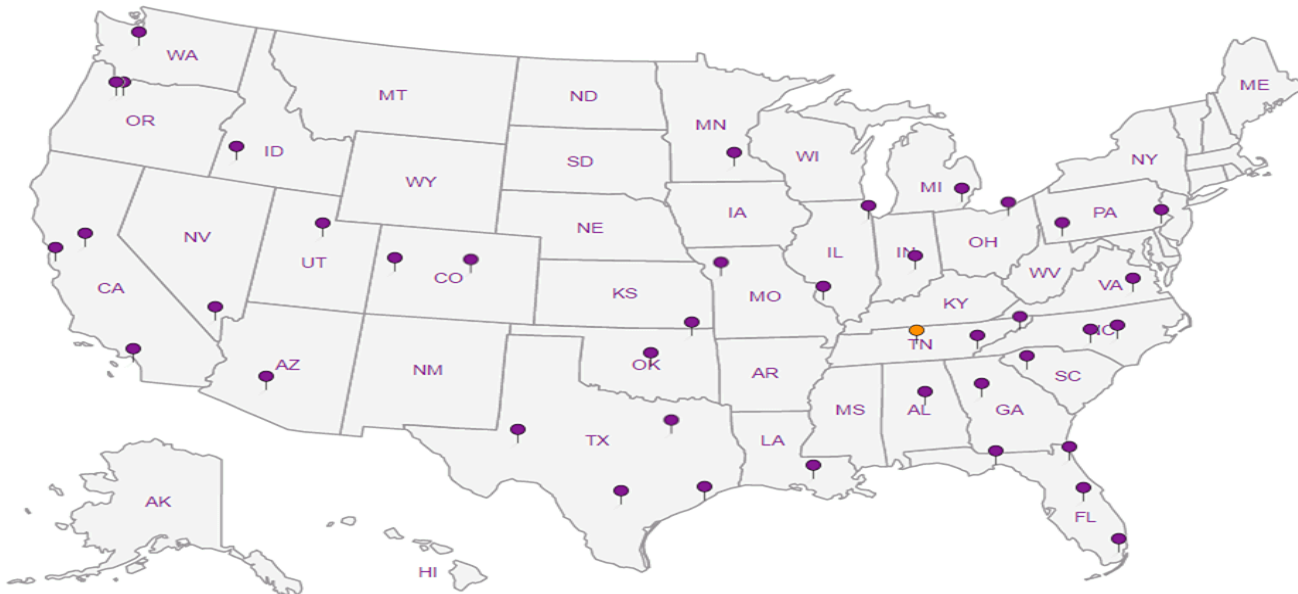
## Third Party Federal Accreditations

|                               |         |                    |               |
|-------------------------------|---------|--------------------|---------------|
| A2LA – ISO 17025              | 1461.01 | AIHA-LAP,LLC EMLAP | 100789        |
| A2LA – ISO 17025 <sup>5</sup> | 1461.02 | DOD                | 1461.01       |
| Canada                        | 1461.01 | USDA               | P330-15-00234 |
| EPA-Crypto                    | TN00003 |                    |               |

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1123577

UPPER MIDWEST REGION  
MN: 612-607-1700 WI: 920-469-2436

Page 2 of 2  
L1121855  
L1120044-KP  
AV  
7/30/14



(Please Print Clearly)

Company Name: AFC GROUP SVCS  
 Branch/Location: NOVI  
 Project Contact: DeBlusChere  
 Phone: 248 863 2563  
 Project Number: NP3BD 19002  
 Project Name: Donaldson - Ferndale  
 Project State: MI  
 Sampled By (Print): L.A  
 Sampled By (Sign):

### CHAIN OF CUSTODY

Preservation Codes  
 A=None B=HCl C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH  
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?  
(YES/NO)  
 PRESERVATION  
(CODE)\*

| Y / # | Pres. Letter | Analysis Requested | COLLECTION |      |  | MATRIX |
|-------|--------------|--------------------|------------|------|--|--------|
|       |              |                    | DATE       | TIME |  |        |
|       |              | Vocs               |            |      |  |        |
|       |              | Mercury            |            |      |  |        |

Regulatory Program:

Data Package Options (billable)  
 EPA Level III  
 EPA Level IV

MS/MSD  
 On your sample (billable)  
 NOT needed on your sample

Matrix Codes  
 A = Air W = Water  
 B = Bats DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 D = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 Sl = Sludge WP = Wipe

Quote #:  
 Mail To Contact:  
 Mail To Company:  
 Mail To Address:  
 Invoice To Contact:  
 Invoice To Company:  
 Invoice To Address:  
 Invoice To Phone:

| FACE LAB # | CLIENT FIELD ID |      | COLLECTION |       | MATRIX | CLIENT COMMENTS | LAB COMMENTS (Lab Use Only) | Profile # |
|------------|-----------------|------|------------|-------|--------|-----------------|-----------------------------|-----------|
|            | DATE            | TIME |            |       |        |                 |                             |           |
|            | A-3             | 4-5  | 7/12       | 12:56 | G      | Hold            |                             |           |
|            | A-4             | 4-5  | 7/12       | 13:00 | S      | Hold            |                             |           |
|            | B-4             | 4-5  |            | 13:55 | S      | Hold            |                             |           |
|            | B-3             | 4-5  |            | 14:00 | S      | Hold            |                             |           |
|            | B-2             | 4-5  |            | 14:10 | S      | Hold            |                             |           |
|            | A-3             | 4-5  |            | 14:13 | G      | Hold            |                             |           |
|            | C-4             | 4-5  |            | 14:16 | S      | Hold            |                             |           |
|            | E-4             | 4-5  |            | 14:40 | S      | Hold            |                             |           |
|            | E-4             | 4-5  |            | 14:45 | S      | Hold            |                             |           |
|            | DUP-1           |      |            |       |        | Hold            |                             |           |
|            | DUP-2           |      |            |       |        | Hold            |                             |           |

-01  
-10  
-08  
-01

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:

Transmit Prelim Rush Results by (complete what you want)

|  |  |   |
|--|--|---|
| Relinquished By: <u>[Signature]</u> Date/Time: <u>7/12 17:00</u> | Received By: <u>AFC Group</u> Date/Time: <u>7/12 17:00</u>     | FACE Project No.<br>Receipt Temp = <u>2.0</u> °C<br>Sample Receipt pH <u>OK / Adjusted</u><br>Cooler Custody Seal <u>Present / Not Present</u><br>Intact / Not Intact |
| Relinquished By: <u>[Signature]</u> Date/Time: <u>10:41</u>      | Received By: <u>Sammy</u> Date/Time: <u>7/12 10:41</u>         |   |
| Relinquished By: <u>[Signature]</u> Date/Time: <u></u>           | Received By: <u>[Signature]</u> Date/Time: <u>7/17/14 8:45</u> |   |
| Relinquished By: <u>[Signature]</u> Date/Time: <u></u>           | Received By: <u></u> Date/Time: <u></u>                        |   |

Samples on HOLD are subject to special pricing and release of liability

RAD SCREEN: <0.5 mR/hr

2401-2.3<sup>rd</sup> Ed.

**Andy Vann**

---

**From:** Mark Beasley  
**Sent:** Tuesday, July 30, 2019 12:44 PM  
**To:** Project Service; Sample Storage; TCLP  
**Subject:** L1121885 \*ATCNMI\* rush relog  
**Attachments:** 20190730 Updated chain.pdf

Relog L1121885-02 for TCLP HG. Log as R2 due 8/1.

Thanks  
Mark

---

**From:** Gerard DeBusschere [<mailto:Gerard.DeBusschere@atcgs.com>]  
**Sent:** Tuesday, July 30, 2019 9:23 AM  
**To:** Mark Beasley  
**Subject:** Ferndale

Mark:  
We would like TCLP-Mercury performed on the C-3 sample  
See attached chain

**Gerard DeBusschere** | Senior Project Manager | **ATC Group Services LLC**  
Direct: 248.863.2563 | Cell: 810.287.1679 | [gerard.debusschere@atcgs.com](mailto:gerard.debusschere@atcgs.com)

46555 Humboldt Drive, Suite 100 | Novi, MI 48377  
Office: 248.669.5140 | Fax: 248.669.5147 | [gerard.debusschere@atcassociates.com](mailto:gerard.debusschere@atcassociates.com) | [www.atcgroupservices.com](http://www.atcgroupservices.com)

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July 24, 2019

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## ATC Group Services - Novi, MI

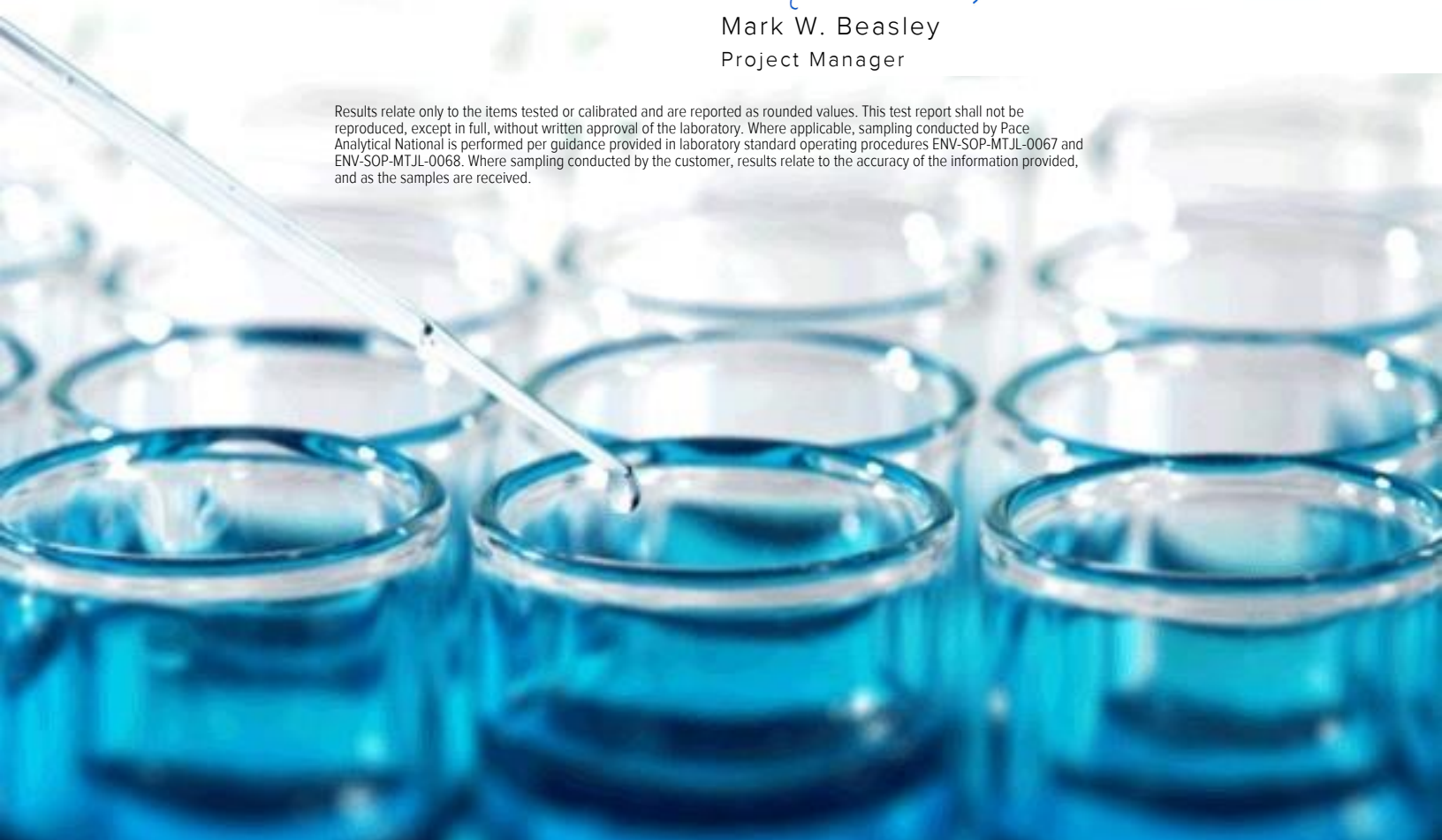
Sample Delivery Group: L1119489  
Samples Received: 07/17/2019  
Project Number: NPJBD19002  
Description: Donaldson/Ferndale Soil Gas

Report To: Gerard DeBusschere  
46555 Humboldt Drive Suite 100  
Novi, MI 48377

Entire Report Reviewed By:

Mark W. Beasley  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.





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|         |
|---------|
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| 7<br>Gl |
| 8<br>Al |
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# SAMPLE SUMMARY



## A1 L1119489-01 Air

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst        | Location       |
|---|-----------|----------|-----------------------|--------------------|----------------|----------------|
| Collected by                                    |           |          |                       | 07/15/19 11:16     | 07/17/19 08:45 |                |
| Collected date/time                             |           |          |                       | 07/15/19 11:16     | 07/17/19 08:45 |                |
| Received date/time                              |           |          |                       |                    |                |                |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1314191 | 2        | 07/19/19 20:02        | 07/19/19 20:02     | AMC            | Mt. Juliet, TN |

1 Cp

2 Tc

3 Ss

## A2 L1119489-02 Air

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst        | Location       |
|---|-----------|----------|-----------------------|--------------------|----------------|----------------|
| Collected by                                    |           |          |                       | 07/15/19 11:20     | 07/17/19 08:45 |                |
| Collected date/time                             |           |          |                       | 07/15/19 11:20     | 07/17/19 08:45 |                |
| Received date/time                              |           |          |                       |                    |                |                |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1314191 | 2        | 07/19/19 20:40        | 07/19/19 20:40     | AMC            | Mt. Juliet, TN |

4 Cn

5 Sr

## A3 L1119489-03 Air

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst        | Location       |
|---|-----------|----------|-----------------------|--------------------|----------------|----------------|
| Collected by                                    |           |          |                       | 07/15/19 11:17     | 07/17/19 08:45 |                |
| Collected date/time                             |           |          |                       | 07/15/19 11:17     | 07/17/19 08:45 |                |
| Received date/time                              |           |          |                       |                    |                |                |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1314191 | 2        | 07/19/19 21:18        | 07/19/19 21:18     | AMC            | Mt. Juliet, TN |

6 Qc

7 Gl

## A4 L1119489-04 Air

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst        | Location       |
|---|-----------|----------|-----------------------|--------------------|----------------|----------------|
| Collected by                                    |           |          |                       | 07/15/19 11:17     | 07/17/19 08:45 |                |
| Collected date/time                             |           |          |                       | 07/15/19 11:17     | 07/17/19 08:45 |                |
| Received date/time                              |           |          |                       |                    |                |                |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1314191 | 2        | 07/19/19 21:56        | 07/19/19 21:56     | AMC            | Mt. Juliet, TN |

8 Al

9 Sc

## B1 L1119489-05 Air

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst        | Location       |
|---|-----------|----------|-----------------------|--------------------|----------------|----------------|
| Collected by                                    |           |          |                       | 07/15/19 12:08     | 07/17/19 08:45 |                |
| Collected date/time                             |           |          |                       | 07/15/19 12:08     | 07/17/19 08:45 |                |
| Received date/time                              |           |          |                       |                    |                |                |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1314191 | 2        | 07/19/19 22:35        | 07/19/19 22:35     | AMC            | Mt. Juliet, TN |

## B2 L1119489-06 Air

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst        | Location       |
|---|-----------|----------|-----------------------|--------------------|----------------|----------------|
| Collected by                                    |           |          |                       | 07/15/19 12:09     | 07/17/19 08:45 |                |
| Collected date/time                             |           |          |                       | 07/15/19 12:09     | 07/17/19 08:45 |                |
| Received date/time                              |           |          |                       |                    |                |                |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1314191 | 2        | 07/19/19 23:13        | 07/19/19 23:13     | AMC            | Mt. Juliet, TN |

## B3 L1119489-07 Air

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst        | Location       |
|---|-----------|----------|-----------------------|--------------------|----------------|----------------|
| Collected by                                    |           |          |                       | 07/15/19 12:09     | 07/17/19 08:45 |                |
| Collected date/time                             |           |          |                       | 07/15/19 12:09     | 07/17/19 08:45 |                |
| Received date/time                              |           |          |                       |                    |                |                |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1314725 | 2        | 07/21/19 03:14        | 07/21/19 03:14     | CAW            | Mt. Juliet, TN |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1315799 | 25       | 07/23/19 16:02        | 07/23/19 16:02     | AMC            | Mt. Juliet, TN |

## B4 L1119489-08 Air

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst        | Location       |
|---|-----------|----------|-----------------------|--------------------|----------------|----------------|
| Collected by                                    |           |          |                       | 07/15/19 12:11     | 07/17/19 08:45 |                |
| Collected date/time                             |           |          |                       | 07/15/19 12:11     | 07/17/19 08:45 |                |
| Received date/time                              |           |          |                       |                    |                |                |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1314190 | 2        | 07/19/19 12:08        | 07/19/19 12:08     | AMC            | Mt. Juliet, TN |

# SAMPLE SUMMARY



## C1 L1119489-09 Air

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst        | Location       |
|---|-----------|----------|-----------------------|--------------------|----------------|----------------|
| Collected by                                    |           |          |                       | 07/15/19 13:28     | 07/17/19 08:45 |                |
| Collected date/time                             |           |          |                       | 07/15/19 13:28     | 07/17/19 08:45 |                |
| Received date/time                              |           |          |                       |                    |                |                |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1314190 | 2        | 07/19/19 12:51        | 07/19/19 12:51     | AMC            | Mt. Juliet, TN |

1 Cp

2 Tc

3 Ss

## C2 L1119489-10 Air

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst        | Location       |
|---|-----------|----------|-----------------------|--------------------|----------------|----------------|
| Collected by                                    |           |          |                       | 07/15/19 13:28     | 07/17/19 08:45 |                |
| Collected date/time                             |           |          |                       | 07/15/19 13:28     | 07/17/19 08:45 |                |
| Received date/time                              |           |          |                       |                    |                |                |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1314190 | 2        | 07/19/19 13:34        | 07/19/19 13:34     | AMC            | Mt. Juliet, TN |

4 Cn

5 Sr

## C3 L1119489-11 Air

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst        | Location       |
|---|-----------|----------|-----------------------|--------------------|----------------|----------------|
| Collected by                                    |           |          |                       | 07/15/19 13:30     | 07/17/19 08:45 |                |
| Collected date/time                             |           |          |                       | 07/15/19 13:30     | 07/17/19 08:45 |                |
| Received date/time                              |           |          |                       |                    |                |                |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1314190 | 2        | 07/19/19 14:18        | 07/19/19 14:18     | AMC            | Mt. Juliet, TN |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1314791 | 25       | 07/20/19 22:02        | 07/20/19 22:02     | MBF            | Mt. Juliet, TN |

6 Qc

7 Gl

8 Al

## C4 L1119489-12 Air

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst        | Location       |
|---|-----------|----------|-----------------------|--------------------|----------------|----------------|
| Collected by                                    |           |          |                       | 07/15/19 13:30     | 07/17/19 08:45 |                |
| Collected date/time                             |           |          |                       | 07/15/19 13:30     | 07/17/19 08:45 |                |
| Received date/time                              |           |          |                       |                    |                |                |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1314190 | 2        | 07/19/19 15:00        | 07/19/19 15:00     | AMC            | Mt. Juliet, TN |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1314791 | 200      | 07/20/19 22:36        | 07/20/19 22:36     | MBF            | Mt. Juliet, TN |

9 Sc

## D1 L1119489-13 Air

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst        | Location       |
|---|-----------|----------|-----------------------|--------------------|----------------|----------------|
| Collected by                                    |           |          |                       | 07/15/19 14:47     | 07/17/19 08:45 |                |
| Collected date/time                             |           |          |                       | 07/15/19 14:47     | 07/17/19 08:45 |                |
| Received date/time                              |           |          |                       |                    |                |                |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1314190 | 2        | 07/19/19 15:43        | 07/19/19 15:43     | AMC            | Mt. Juliet, TN |

## D2 L1119489-14 Air

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst        | Location       |
|---|-----------|----------|-----------------------|--------------------|----------------|----------------|
| Collected by                                    |           |          |                       | 07/15/19 14:50     | 07/17/19 08:45 |                |
| Collected date/time                             |           |          |                       | 07/15/19 14:50     | 07/17/19 08:45 |                |
| Received date/time                              |           |          |                       |                    |                |                |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1314190 | 2        | 07/19/19 16:26        | 07/19/19 16:26     | AMC            | Mt. Juliet, TN |

## D3 L1119489-15 Air

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst        | Location       |
|---|-----------|----------|-----------------------|--------------------|----------------|----------------|
| Collected by                                    |           |          |                       | 07/15/19 14:51     | 07/17/19 08:45 |                |
| Collected date/time                             |           |          |                       | 07/15/19 14:51     | 07/17/19 08:45 |                |
| Received date/time                              |           |          |                       |                    |                |                |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1314190 | 2        | 07/19/19 17:09        | 07/19/19 17:09     | AMC            | Mt. Juliet, TN |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1314791 | 200      | 07/20/19 23:10        | 07/20/19 23:10     | MBF            | Mt. Juliet, TN |

## D4 L1119489-16 Air

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst        | Location       |
|---|-----------|----------|-----------------------|--------------------|----------------|----------------|
| Collected by                                    |           |          |                       | 07/15/19 14:52     | 07/17/19 08:45 |                |
| Collected date/time                             |           |          |                       | 07/15/19 14:52     | 07/17/19 08:45 |                |
| Received date/time                              |           |          |                       |                    |                |                |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1314190 | 2        | 07/19/19 17:52        | 07/19/19 17:52     | AMC            | Mt. Juliet, TN |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1314791 | 25       | 07/20/19 23:45        | 07/20/19 23:45     | MBF            | Mt. Juliet, TN |

# SAMPLE SUMMARY



## E1 L1119489-17 Air

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst            | Location       |
|---|-----------|----------|-----------------------|--------------------|--------------------|----------------|
| Collected by                                    |           |          |                       |                    |                    |                |
|   |           |          |                       | 07/15/19 15:49     | Received date/time |                |
|   |           |          |                       |                    | 07/17/19 08:45     |                |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1314190 | 2        | 07/19/19 18:36        | 07/19/19 18:36     | AMC                | Mt. Juliet, TN |

1 Cp

2 Tc

3 Ss

## E2 L1119489-18 Air

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst            | Location       |
|---|-----------|----------|-----------------------|--------------------|--------------------|----------------|
| Collected by                                    |           |          |                       |                    |                    |                |
|   |           |          |                       | 07/15/19 15:52     | Received date/time |                |
|   |           |          |                       |                    | 07/17/19 08:45     |                |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1314190 | 2        | 07/19/19 19:19        | 07/19/19 19:19     | AMC                | Mt. Juliet, TN |

4 Cn

5 Sr

## E3 L1119489-19 Air

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst            | Location       |
|---|-----------|----------|-----------------------|--------------------|--------------------|----------------|
| Collected by                                    |           |          |                       |                    |                    |                |
|   |           |          |                       | 07/15/19 17:05     | Received date/time |                |
|   |           |          |                       |                    | 07/17/19 08:45     |                |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1314190 | 2        | 07/19/19 20:02        | 07/19/19 20:02     | AMC                | Mt. Juliet, TN |

6 Qc

7 Gl

## E4 L1119489-20 Air

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst            | Location       |
|---|-----------|----------|-----------------------|--------------------|--------------------|----------------|
| Collected by                                    |           |          |                       |                    |                    |                |
|   |           |          |                       | 07/15/19 17:15     | Received date/time |                |
|   |           |          |                       |                    | 07/17/19 08:45     |                |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1314190 | 2        | 07/19/19 20:46        | 07/19/19 20:46     | AMC                | Mt. Juliet, TN |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1314791 | 80       | 07/21/19 00:20        | 07/21/19 00:20     | MBF                | Mt. Juliet, TN |

8 Al

9 Sc

## F3 L1119489-21 Air

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst            | Location       |
|---|-----------|----------|-----------------------|--------------------|--------------------|----------------|
| Collected by                                    |           |          |                       |                    |                    |                |
|   |           |          |                       | 07/15/19 16:34     | Received date/time |                |
|   |           |          |                       |                    | 07/17/19 08:45     |                |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1314190 | 2        | 07/19/19 21:29        | 07/19/19 21:29     | AMC                | Mt. Juliet, TN |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1314791 | 25       | 07/21/19 00:56        | 07/21/19 00:56     | MBF                | Mt. Juliet, TN |

## F4 L1119489-22 Air

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst            | Location       |
|---|-----------|----------|-----------------------|--------------------|--------------------|----------------|
| Collected by                                    |           |          |                       |                    |                    |                |
|   |           |          |                       | 07/15/19 16:30     | Received date/time |                |
|   |           |          |                       |                    | 07/17/19 08:45     |                |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1314190 | 2        | 07/19/19 22:12        | 07/19/19 22:12     | AMC                | Mt. Juliet, TN |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1314791 | 200      | 07/21/19 01:30        | 07/21/19 01:30     | MBF                | Mt. Juliet, TN |



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Mark W. Beasley  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc



Collected date/time: 07/15/19 11:16

L1119489

## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                        | CAS #      | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch     |
|--------------------------------|------------|----------|--------------|---------------|----------------|-----------------|-----------|----------|-----------|
| Acetone                        | 67-64-1    | 58.10    | 2.50         | 5.94          | 8.61           | 20.5            |           | 2        | WG1314191 |
| Allyl chloride                 | 107-05-1   | 76.53    | 0.400        | 1.25          | ND             | ND              |           | 2        | WG1314191 |
| Benzene                        | 71-43-2    | 78.10    | 0.400        | 1.28          | 2.57           | 8.20            |           | 2        | WG1314191 |
| Benzyl Chloride                | 100-44-7   | 127      | 0.400        | 2.08          | ND             | ND              |           | 2        | WG1314191 |
| Bromodichloromethane           | 75-27-4    | 164      | 0.400        | 2.68          | ND             | ND              |           | 2        | WG1314191 |
| Bromoform                      | 75-25-2    | 253      | 1.20         | 12.4          | ND             | ND              |           | 2        | WG1314191 |
| Bromomethane                   | 74-83-9    | 94.90    | 0.400        | 1.55          | ND             | ND              |           | 2        | WG1314191 |
| 1,3-Butadiene                  | 106-99-0   | 54.10    | 4.00         | 8.85          | ND             | ND              |           | 2        | WG1314191 |
| Carbon disulfide               | 75-15-0    | 76.10    | 0.400        | 1.24          | 0.825          | 2.57            |           | 2        | WG1314191 |
| Carbon tetrachloride           | 56-23-5    | 154      | 0.400        | 2.52          | ND             | ND              |           | 2        | WG1314191 |
| Chlorobenzene                  | 108-90-7   | 113      | 0.400        | 1.85          | 1.49           | 6.89            |           | 2        | WG1314191 |
| Chloroethane                   | 75-00-3    | 64.50    | 0.400        | 1.06          | ND             | ND              |           | 2        | WG1314191 |
| Chloroform                     | 67-66-3    | 119      | 0.400        | 1.95          | ND             | ND              |           | 2        | WG1314191 |
| Chloromethane                  | 74-87-3    | 50.50    | 0.400        | 0.826         | ND             | ND              |           | 2        | WG1314191 |
| 2-Chlorotoluene                | 95-49-8    | 126      | 0.400        | 2.06          | ND             | ND              |           | 2        | WG1314191 |
| Cyclohexane                    | 110-82-7   | 84.20    | 0.400        | 1.38          | ND             | ND              |           | 2        | WG1314191 |
| Dibromochloromethane           | 124-48-1   | 208      | 0.400        | 3.40          | ND             | ND              |           | 2        | WG1314191 |
| 1,2-Dibromoethane              | 106-93-4   | 188      | 0.400        | 3.08          | ND             | ND              |           | 2        | WG1314191 |
| 1,2-Dichlorobenzene            | 95-50-1    | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314191 |
| 1,3-Dichlorobenzene            | 541-73-1   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314191 |
| 1,4-Dichlorobenzene            | 106-46-7   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314191 |
| 1,2-Dichloroethane             | 107-06-2   | 99       | 0.400        | 1.62          | ND             | ND              |           | 2        | WG1314191 |
| 1,1-Dichloroethane             | 75-34-3    | 98       | 0.400        | 1.60          | ND             | ND              |           | 2        | WG1314191 |
| 1,1-Dichloroethene             | 75-35-4    | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314191 |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314191 |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314191 |
| 1,2-Dichloropropane            | 78-87-5    | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1314191 |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314191 |
| trans-1,3-Dichloropropene      | 10061-02-6 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314191 |
| 1,4-Dioxane                    | 123-91-1   | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314191 |
| Ethanol                        | 64-17-5    | 46.10    | 1.26         | 2.38          | 21.5           | 40.5            |           | 2        | WG1314191 |
| Ethylbenzene                   | 100-41-4   | 106      | 0.400        | 1.73          | 1.27           | 5.50            |           | 2        | WG1314191 |
| 4-Ethyltoluene                 | 622-96-8   | 120      | 0.400        | 1.96          | ND             | ND              |           | 2        | WG1314191 |
| Trichlorofluoromethane         | 75-69-4    | 137.40   | 0.400        | 2.25          | ND             | ND              |           | 2        | WG1314191 |
| Dichlorodifluoromethane        | 75-71-8    | 120.92   | 0.400        | 1.98          | 0.441          | 2.18            |           | 2        | WG1314191 |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.40   | 0.400        | 3.07          | ND             | ND              |           | 2        | WG1314191 |
| 1,2-Dichlorotetrafluoroethane  | 76-14-2    | 171      | 0.400        | 2.80          | ND             | ND              |           | 2        | WG1314191 |
| Heptane                        | 142-82-5   | 100      | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1314191 |
| Hexachloro-1,3-butadiene       | 87-68-3    | 261      | 1.26         | 13.5          | ND             | ND              |           | 2        | WG1314191 |
| n-Hexane                       | 110-54-3   | 86.20    | 0.400        | 1.41          | 0.855          | 3.01            |           | 2        | WG1314191 |
| Isopropylbenzene               | 98-82-8    | 120.20   | 0.400        | 1.97          | ND             | ND              |           | 2        | WG1314191 |
| Methylene Chloride             | 75-09-2    | 84.90    | 0.400        | 1.39          | 3.20           | 11.1            |           | 2        | WG1314191 |
| Methyl Butyl Ketone            | 591-78-6   | 100      | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314191 |
| 2-Butanone (MEK)               | 78-93-3    | 72.10    | 2.50         | 7.37          | ND             | ND              |           | 2        | WG1314191 |
| 4-Methyl-2-pentanone (MIBK)    | 108-10-1   | 100.10   | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314191 |
| Methyl methacrylate            | 80-62-6    | 100.12   | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1314191 |
| MTBE                           | 1634-04-4  | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314191 |
| Naphthalene                    | 91-20-3    | 128      | 1.26         | 6.60          | ND             | ND              |           | 2        | WG1314191 |
| 2-Propanol                     | 67-63-0    | 60.10    | 2.50         | 6.15          | 3.02           | 7.42            |           | 2        | WG1314191 |
| Propene                        | 115-07-1   | 42.10    | 0.800        | 1.38          | ND             | ND              |           | 2        | WG1314191 |
| Styrene                        | 100-42-5   | 104      | 0.400        | 1.70          | 0.870          | 3.70            |           | 2        | WG1314191 |
| 1,1,2,2-Tetrachloroethane      | 79-34-5    | 168      | 0.400        | 2.75          | ND             | ND              |           | 2        | WG1314191 |
| Tetrachloroethylene            | 127-18-4   | 166      | 0.400        | 2.72          | ND             | ND              |           | 2        | WG1314191 |
| Tetrahydrofuran                | 109-99-9   | 72.10    | 0.400        | 1.18          | 2.57           | 7.58            |           | 2        | WG1314191 |
| Toluene                        | 108-88-3   | 92.10    | 0.400        | 1.51          | 6.01           | 22.6            |           | 2        | WG1314191 |
| 1,2,4-Trichlorobenzene         | 120-82-1   | 181      | 1.26         | 9.33          | ND             | ND              |           | 2        | WG1314191 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

ACCOUNT:

ATC Group Services - Novi, MI

PROJECT:

NPJBD19002

SDG:

L1119489

DATE/TIME:

07/24/19 08:16

PAGE:

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Collected date/time: 07/15/19 11:16

L1119489

## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                    | CAS #     | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch                     |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|---------------------------|
| 1,1,1-Trichloroethane      | 71-55-6   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| 1,1,2-Trichloroethane      | 79-00-5   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| Trichloroethylene          | 79-01-6   | 131      | 0.400        | 2.14          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| 1,2,4-Trimethylbenzene     | 95-63-6   | 120      | 0.400        | 1.96          | 1.59           | 7.82            |           | 2        | <a href="#">WG1314191</a> |
| 1,3,5-Trimethylbenzene     | 108-67-8  | 120      | 0.400        | 1.96          | 0.411          | 2.01            |           | 2        | <a href="#">WG1314191</a> |
| 2,2,4-Trimethylpentane     | 540-84-1  | 114.22   | 0.400        | 1.87          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| Vinyl chloride             | 75-01-4   | 62.50    | 0.400        | 1.02          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| Vinyl Bromide              | 593-60-2  | 106.95   | 0.400        | 1.75          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| Vinyl acetate              | 108-05-4  | 86.10    | 0.400        | 1.41          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| m&p-Xylene                 | 1330-20-7 | 106      | 0.800        | 3.47          | 5.30           | 23.0            |           | 2        | <a href="#">WG1314191</a> |
| o-Xylene                   | 95-47-6   | 106      | 0.400        | 1.73          | 1.85           | 8.03            |           | 2        | <a href="#">WG1314191</a> |
| TPH (GC/MS) Low Fraction   | 8006-61-9 | 101      | 100          | 413           | 149            | 615             |           | 2        | <a href="#">WG1314191</a> |
| 1,1-Difluoroethane         | 75-37-6   | 66.05    | 0.400        | 1.08          | 22.4           | 60.6            |           | 2        | <a href="#">WG1314191</a> |
| 1,2,3-Trimethylbenzene     | 526-73-8  | 120.10   | 0.400        | 1.96          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| Chlorodifluoromethane      | 75-45-6   | 86.50    | 0.400        | 1.42          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| Dicyclopentadiene          | 77-73-6   | 132.20   | 0.400        | 2.16          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| Ethyl acetate              | 141-78-6  | 88       | 0.400        | 1.44          | 0.646          | 2.32            |           | 2        | <a href="#">WG1314191</a> |
| Methyl Cyclohexane         | 108-87-2  | 98.1860  | 0.400        | 1.61          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| Tert-Amyl Ethyl Ether      | 919-94-8  | 116.20   | 0.400        | 1.90          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 95.4           |                 |           |          | <a href="#">WG1314191</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 07/15/19 11:20

L1119489

## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                        | CAS #      | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch     |
|--------------------------------|------------|----------|--------------|---------------|----------------|-----------------|-----------|----------|-----------|
| Acetone                        | 67-64-1    | 58.10    | 2.50         | 5.94          | 2.70           | 6.41            | B         | 2        | WG1314191 |
| Allyl chloride                 | 107-05-1   | 76.53    | 0.400        | 1.25          | ND             | ND              |           | 2        | WG1314191 |
| Benzene                        | 71-43-2    | 78.10    | 0.400        | 1.28          | 0.834          | 2.66            |           | 2        | WG1314191 |
| Benzyl Chloride                | 100-44-7   | 127      | 0.400        | 2.08          | ND             | ND              |           | 2        | WG1314191 |
| Bromodichloromethane           | 75-27-4    | 164      | 0.400        | 2.68          | ND             | ND              |           | 2        | WG1314191 |
| Bromoform                      | 75-25-2    | 253      | 1.20         | 12.4          | ND             | ND              |           | 2        | WG1314191 |
| Bromomethane                   | 74-83-9    | 94.90    | 0.400        | 1.55          | ND             | ND              |           | 2        | WG1314191 |
| 1,3-Butadiene                  | 106-99-0   | 54.10    | 4.00         | 8.85          | ND             | ND              |           | 2        | WG1314191 |
| Carbon disulfide               | 75-15-0    | 76.10    | 0.400        | 1.24          | ND             | ND              |           | 2        | WG1314191 |
| Carbon tetrachloride           | 56-23-5    | 154      | 0.400        | 2.52          | ND             | ND              |           | 2        | WG1314191 |
| Chlorobenzene                  | 108-90-7   | 113      | 0.400        | 1.85          | 1.50           | 6.94            |           | 2        | WG1314191 |
| Chloroethane                   | 75-00-3    | 64.50    | 0.400        | 1.06          | ND             | ND              |           | 2        | WG1314191 |
| Chloroform                     | 67-66-3    | 119      | 0.400        | 1.95          | ND             | ND              |           | 2        | WG1314191 |
| Chloromethane                  | 74-87-3    | 50.50    | 0.400        | 0.826         | ND             | ND              |           | 2        | WG1314191 |
| 2-Chlorotoluene                | 95-49-8    | 126      | 0.400        | 2.06          | ND             | ND              |           | 2        | WG1314191 |
| Cyclohexane                    | 110-82-7   | 84.20    | 0.400        | 1.38          | ND             | ND              |           | 2        | WG1314191 |
| Dibromochloromethane           | 124-48-1   | 208      | 0.400        | 3.40          | ND             | ND              |           | 2        | WG1314191 |
| 1,2-Dibromoethane              | 106-93-4   | 188      | 0.400        | 3.08          | ND             | ND              |           | 2        | WG1314191 |
| 1,2-Dichlorobenzene            | 95-50-1    | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314191 |
| 1,3-Dichlorobenzene            | 541-73-1   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314191 |
| 1,4-Dichlorobenzene            | 106-46-7   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314191 |
| 1,2-Dichloroethane             | 107-06-2   | 99       | 0.400        | 1.62          | ND             | ND              |           | 2        | WG1314191 |
| 1,1-Dichloroethane             | 75-34-3    | 98       | 0.400        | 1.60          | ND             | ND              |           | 2        | WG1314191 |
| 1,1-Dichloroethene             | 75-35-4    | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314191 |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314191 |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314191 |
| 1,2-Dichloropropane            | 78-87-5    | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1314191 |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314191 |
| trans-1,3-Dichloropropene      | 10061-02-6 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314191 |
| 1,4-Dioxane                    | 123-91-1   | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314191 |
| Ethanol                        | 64-17-5    | 46.10    | 1.26         | 2.38          | 12.2           | 23.0            |           | 2        | WG1314191 |
| Ethylbenzene                   | 100-41-4   | 106      | 0.400        | 1.73          | 1.57           | 6.82            |           | 2        | WG1314191 |
| 4-Ethyltoluene                 | 622-96-8   | 120      | 0.400        | 1.96          | 0.546          | 2.68            |           | 2        | WG1314191 |
| Trichlorofluoromethane         | 75-69-4    | 137.40   | 0.400        | 2.25          | 11.4           | 63.9            |           | 2        | WG1314191 |
| Dichlorodifluoromethane        | 75-71-8    | 120.92   | 0.400        | 1.98          | 0.457          | 2.26            |           | 2        | WG1314191 |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.40   | 0.400        | 3.07          | ND             | ND              |           | 2        | WG1314191 |
| 1,2-Dichlorotetrafluoroethane  | 76-14-2    | 171      | 0.400        | 2.80          | ND             | ND              |           | 2        | WG1314191 |
| Heptane                        | 142-82-5   | 100      | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1314191 |
| Hexachloro-1,3-butadiene       | 87-68-3    | 261      | 1.26         | 13.5          | ND             | ND              |           | 2        | WG1314191 |
| n-Hexane                       | 110-54-3   | 86.20    | 0.400        | 1.41          | ND             | ND              |           | 2        | WG1314191 |
| Isopropylbenzene               | 98-82-8    | 120.20   | 0.400        | 1.97          | ND             | ND              |           | 2        | WG1314191 |
| Methylene Chloride             | 75-09-2    | 84.90    | 0.400        | 1.39          | ND             | ND              |           | 2        | WG1314191 |
| Methyl Butyl Ketone            | 591-78-6   | 100      | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314191 |
| 2-Butanone (MEK)               | 78-93-3    | 72.10    | 2.50         | 7.37          | ND             | ND              |           | 2        | WG1314191 |
| 4-Methyl-2-pentanone (MIBK)    | 108-10-1   | 100.10   | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314191 |
| Methyl methacrylate            | 80-62-6    | 100.12   | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1314191 |
| MTBE                           | 1634-04-4  | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314191 |
| Naphthalene                    | 91-20-3    | 128      | 1.26         | 6.60          | ND             | ND              |           | 2        | WG1314191 |
| 2-Propanol                     | 67-63-0    | 60.10    | 2.50         | 6.15          | ND             | ND              |           | 2        | WG1314191 |
| Propene                        | 115-07-1   | 42.10    | 0.800        | 1.38          | ND             | ND              |           | 2        | WG1314191 |
| Styrene                        | 100-42-5   | 104      | 0.400        | 1.70          | ND             | ND              |           | 2        | WG1314191 |
| 1,1,2,2-Tetrachloroethane      | 79-34-5    | 168      | 0.400        | 2.75          | ND             | ND              |           | 2        | WG1314191 |
| Tetrachloroethylene            | 127-18-4   | 166      | 0.400        | 2.72          | 0.691          | 4.69            |           | 2        | WG1314191 |
| Tetrahydrofuran                | 109-99-9   | 72.10    | 0.400        | 1.18          | 0.754          | 2.22            |           | 2        | WG1314191 |
| Toluene                        | 108-88-3   | 92.10    | 0.400        | 1.51          | 5.02           | 18.9            |           | 2        | WG1314191 |
| 1,2,4-Trichlorobenzene         | 120-82-1   | 181      | 1.26         | 9.33          | ND             | ND              |           | 2        | WG1314191 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

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9 Sc

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## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                    | CAS #     | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch                     |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|---------------------------|
| 1,1,1-Trichloroethane      | 71-55-6   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| 1,1,2-Trichloroethane      | 79-00-5   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| Trichloroethylene          | 79-01-6   | 131      | 0.400        | 2.14          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| 1,2,4-Trimethylbenzene     | 95-63-6   | 120      | 0.400        | 1.96          | 2.78           | 13.6            |           | 2        | <a href="#">WG1314191</a> |
| 1,3,5-Trimethylbenzene     | 108-67-8  | 120      | 0.400        | 1.96          | 0.710          | 3.49            |           | 2        | <a href="#">WG1314191</a> |
| 2,2,4-Trimethylpentane     | 540-84-1  | 114.22   | 0.400        | 1.87          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| Vinyl chloride             | 75-01-4   | 62.50    | 0.400        | 1.02          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| Vinyl Bromide              | 593-60-2  | 106.95   | 0.400        | 1.75          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| Vinyl acetate              | 108-05-4  | 86.10    | 0.400        | 1.41          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| m&p-Xylene                 | 1330-20-7 | 106      | 0.800        | 3.47          | 7.47           | 32.4            |           | 2        | <a href="#">WG1314191</a> |
| o-Xylene                   | 95-47-6   | 106      | 0.400        | 1.73          | 3.35           | 14.5            |           | 2        | <a href="#">WG1314191</a> |
| TPH (GC/MS) Low Fraction   | 8006-61-9 | 101      | 100          | 413           | 132            | 546             |           | 2        | <a href="#">WG1314191</a> |
| 1,1-Difluoroethane         | 75-37-6   | 66.05    | 0.400        | 1.08          | 1.37           | 3.70            |           | 2        | <a href="#">WG1314191</a> |
| 1,2,3-Trimethylbenzene     | 526-73-8  | 120.10   | 0.400        | 1.96          | 0.621          | 3.05            |           | 2        | <a href="#">WG1314191</a> |
| Chlorodifluoromethane      | 75-45-6   | 86.50    | 0.400        | 1.42          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| Dicyclopentadiene          | 77-73-6   | 132.20   | 0.400        | 2.16          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| Ethyl acetate              | 141-78-6  | 88       | 0.400        | 1.44          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| Methyl Cyclohexane         | 108-87-2  | 98.1860  | 0.400        | 1.61          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| Tert-Amyl Ethyl Ether      | 919-94-8  | 116.20   | 0.400        | 1.90          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 95.5           |                 |           |          | <a href="#">WG1314191</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





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## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                        | CAS #      | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch     |
|--------------------------------|------------|----------|--------------|---------------|----------------|-----------------|-----------|----------|-----------|
| Acetone                        | 67-64-1    | 58.10    | 2.50         | 5.94          | 16.8           | 39.9            |           | 2        | WG1314191 |
| Allyl chloride                 | 107-05-1   | 76.53    | 0.400        | 1.25          | ND             | ND              |           | 2        | WG1314191 |
| Benzene                        | 71-43-2    | 78.10    | 0.400        | 1.28          | 0.812          | 2.59            |           | 2        | WG1314191 |
| Benzyl Chloride                | 100-44-7   | 127      | 0.400        | 2.08          | ND             | ND              |           | 2        | WG1314191 |
| Bromodichloromethane           | 75-27-4    | 164      | 0.400        | 2.68          | ND             | ND              |           | 2        | WG1314191 |
| Bromoform                      | 75-25-2    | 253      | 1.20         | 12.4          | ND             | ND              |           | 2        | WG1314191 |
| Bromomethane                   | 74-83-9    | 94.90    | 0.400        | 1.55          | ND             | ND              |           | 2        | WG1314191 |
| 1,3-Butadiene                  | 106-99-0   | 54.10    | 4.00         | 8.85          | ND             | ND              |           | 2        | WG1314191 |
| Carbon disulfide               | 75-15-0    | 76.10    | 0.400        | 1.24          | 1.57           | 4.90            |           | 2        | WG1314191 |
| Carbon tetrachloride           | 56-23-5    | 154      | 0.400        | 2.52          | ND             | ND              |           | 2        | WG1314191 |
| Chlorobenzene                  | 108-90-7   | 113      | 0.400        | 1.85          | 0.925          | 4.28            |           | 2        | WG1314191 |
| Chloroethane                   | 75-00-3    | 64.50    | 0.400        | 1.06          | ND             | ND              |           | 2        | WG1314191 |
| Chloroform                     | 67-66-3    | 119      | 0.400        | 1.95          | ND             | ND              |           | 2        | WG1314191 |
| Chloromethane                  | 74-87-3    | 50.50    | 0.400        | 0.826         | ND             | ND              |           | 2        | WG1314191 |
| 2-Chlorotoluene                | 95-49-8    | 126      | 0.400        | 2.06          | ND             | ND              |           | 2        | WG1314191 |
| Cyclohexane                    | 110-82-7   | 84.20    | 0.400        | 1.38          | ND             | ND              |           | 2        | WG1314191 |
| Dibromochloromethane           | 124-48-1   | 208      | 0.400        | 3.40          | ND             | ND              |           | 2        | WG1314191 |
| 1,2-Dibromoethane              | 106-93-4   | 188      | 0.400        | 3.08          | ND             | ND              |           | 2        | WG1314191 |
| 1,2-Dichlorobenzene            | 95-50-1    | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314191 |
| 1,3-Dichlorobenzene            | 541-73-1   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314191 |
| 1,4-Dichlorobenzene            | 106-46-7   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314191 |
| 1,2-Dichloroethane             | 107-06-2   | 99       | 0.400        | 1.62          | ND             | ND              |           | 2        | WG1314191 |
| 1,1-Dichloroethane             | 75-34-3    | 98       | 0.400        | 1.60          | ND             | ND              |           | 2        | WG1314191 |
| 1,1-Dichloroethene             | 75-35-4    | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314191 |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314191 |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314191 |
| 1,2-Dichloropropane            | 78-87-5    | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1314191 |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314191 |
| trans-1,3-Dichloropropene      | 10061-02-6 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314191 |
| 1,4-Dioxane                    | 123-91-1   | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314191 |
| Ethanol                        | 64-17-5    | 46.10    | 1.26         | 2.38          | 17.5           | 32.9            |           | 2        | WG1314191 |
| Ethylbenzene                   | 100-41-4   | 106      | 0.400        | 1.73          | 0.855          | 3.71            |           | 2        | WG1314191 |
| 4-Ethyltoluene                 | 622-96-8   | 120      | 0.400        | 1.96          | ND             | ND              |           | 2        | WG1314191 |
| Trichlorofluoromethane         | 75-69-4    | 137.40   | 0.400        | 2.25          | 6.66           | 37.5            |           | 2        | WG1314191 |
| Dichlorodifluoromethane        | 75-71-8    | 120.92   | 0.400        | 1.98          | 0.444          | 2.20            |           | 2        | WG1314191 |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.40   | 0.400        | 3.07          | ND             | ND              |           | 2        | WG1314191 |
| 1,2-Dichlorotetrafluoroethane  | 76-14-2    | 171      | 0.400        | 2.80          | ND             | ND              |           | 2        | WG1314191 |
| Heptane                        | 142-82-5   | 100      | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1314191 |
| Hexachloro-1,3-butadiene       | 87-68-3    | 261      | 1.26         | 13.5          | ND             | ND              |           | 2        | WG1314191 |
| n-Hexane                       | 110-54-3   | 86.20    | 0.400        | 1.41          | 2.73           | 9.61            |           | 2        | WG1314191 |
| Isopropylbenzene               | 98-82-8    | 120.20   | 0.400        | 1.97          | ND             | ND              |           | 2        | WG1314191 |
| Methylene Chloride             | 75-09-2    | 84.90    | 0.400        | 1.39          | 5.45           | 18.9            |           | 2        | WG1314191 |
| Methyl Butyl Ketone            | 591-78-6   | 100      | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314191 |
| 2-Butanone (MEK)               | 78-93-3    | 72.10    | 2.50         | 7.37          | ND             | ND              |           | 2        | WG1314191 |
| 4-Methyl-2-pentanone (MIBK)    | 108-10-1   | 100.10   | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314191 |
| Methyl methacrylate            | 80-62-6    | 100.12   | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1314191 |
| MTBE                           | 1634-04-4  | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314191 |
| Naphthalene                    | 91-20-3    | 128      | 1.26         | 6.60          | ND             | ND              |           | 2        | WG1314191 |
| 2-Propanol                     | 67-63-0    | 60.10    | 2.50         | 6.15          | 3.68           | 9.05            |           | 2        | WG1314191 |
| Propene                        | 115-07-1   | 42.10    | 0.800        | 1.38          | ND             | ND              |           | 2        | WG1314191 |
| Styrene                        | 100-42-5   | 104      | 0.400        | 1.70          | 0.716          | 3.04            |           | 2        | WG1314191 |
| 1,1,2,2-Tetrachloroethane      | 79-34-5    | 168      | 0.400        | 2.75          | ND             | ND              |           | 2        | WG1314191 |
| Tetrachloroethylene            | 127-18-4   | 166      | 0.400        | 2.72          | 4.13           | 28.0            |           | 2        | WG1314191 |
| Tetrahydrofuran                | 109-99-9   | 72.10    | 0.400        | 1.18          | 0.815          | 2.40            |           | 2        | WG1314191 |
| Toluene                        | 108-88-3   | 92.10    | 0.400        | 1.51          | 4.72           | 17.8            |           | 2        | WG1314191 |
| 1,2,4-Trichlorobenzene         | 120-82-1   | 181      | 1.26         | 9.33          | ND             | ND              |           | 2        | WG1314191 |

1 Cp

2 Tc

3 Ss

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8 Al

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## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                    | CAS #     | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch                     |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|---------------------------|
| 1,1,1-Trichloroethane      | 71-55-6   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| 1,1,2-Trichloroethane      | 79-00-5   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| Trichloroethylene          | 79-01-6   | 131      | 0.400        | 2.14          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| 1,2,4-Trimethylbenzene     | 95-63-6   | 120      | 0.400        | 1.96          | 1.35           | 6.62            |           | 2        | <a href="#">WG1314191</a> |
| 1,3,5-Trimethylbenzene     | 108-67-8  | 120      | 0.400        | 1.96          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| 2,2,4-Trimethylpentane     | 540-84-1  | 114.22   | 0.400        | 1.87          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| Vinyl chloride             | 75-01-4   | 62.50    | 0.400        | 1.02          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| Vinyl Bromide              | 593-60-2  | 106.95   | 0.400        | 1.75          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| Vinyl acetate              | 108-05-4  | 86.10    | 0.400        | 1.41          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| m&p-Xylene                 | 1330-20-7 | 106      | 0.800        | 3.47          | 3.87           | 16.8            |           | 2        | <a href="#">WG1314191</a> |
| o-Xylene                   | 95-47-6   | 106      | 0.400        | 1.73          | 1.39           | 6.02            |           | 2        | <a href="#">WG1314191</a> |
| TPH (GC/MS) Low Fraction   | 8006-61-9 | 101      | 100          | 413           | 165            | 680             |           | 2        | <a href="#">WG1314191</a> |
| 1,1-Difluoroethane         | 75-37-6   | 66.05    | 0.400        | 1.08          | 71.2           | 192             |           | 2        | <a href="#">WG1314191</a> |
| 1,2,3-Trimethylbenzene     | 526-73-8  | 120.10   | 0.400        | 1.96          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| Chlorodifluoromethane      | 75-45-6   | 86.50    | 0.400        | 1.42          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| Dicyclopentadiene          | 77-73-6   | 132.20   | 0.400        | 2.16          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| Ethyl acetate              | 141-78-6  | 88       | 0.400        | 1.44          | 0.428          | 1.54            |           | 2        | <a href="#">WG1314191</a> |
| Methyl Cyclohexane         | 108-87-2  | 98.1860  | 0.400        | 1.61          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| Tert-Amyl Ethyl Ether      | 919-94-8  | 116.20   | 0.400        | 1.90          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 96.7           |                 |           |          | <a href="#">WG1314191</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                        | CAS #      | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch     |
|--------------------------------|------------|----------|--------------|---------------|----------------|-----------------|-----------|----------|-----------|
| Acetone                        | 67-64-1    | 58.10    | 2.50         | 5.94          | 29.0           | 68.8            |           | 2        | WG1314191 |
| Allyl chloride                 | 107-05-1   | 76.53    | 0.400        | 1.25          | ND             | ND              |           | 2        | WG1314191 |
| Benzene                        | 71-43-2    | 78.10    | 0.400        | 1.28          | 2.40           | 7.68            |           | 2        | WG1314191 |
| Benzyl Chloride                | 100-44-7   | 127      | 0.400        | 2.08          | ND             | ND              |           | 2        | WG1314191 |
| Bromodichloromethane           | 75-27-4    | 164      | 0.400        | 2.68          | ND             | ND              |           | 2        | WG1314191 |
| Bromoform                      | 75-25-2    | 253      | 1.20         | 12.4          | ND             | ND              |           | 2        | WG1314191 |
| Bromomethane                   | 74-83-9    | 94.90    | 0.400        | 1.55          | ND             | ND              |           | 2        | WG1314191 |
| 1,3-Butadiene                  | 106-99-0   | 54.10    | 4.00         | 8.85          | ND             | ND              |           | 2        | WG1314191 |
| Carbon disulfide               | 75-15-0    | 76.10    | 0.400        | 1.24          | 1.49           | 4.64            |           | 2        | WG1314191 |
| Carbon tetrachloride           | 56-23-5    | 154      | 0.400        | 2.52          | ND             | ND              |           | 2        | WG1314191 |
| Chlorobenzene                  | 108-90-7   | 113      | 0.400        | 1.85          | 1.79           | 8.28            |           | 2        | WG1314191 |
| Chloroethane                   | 75-00-3    | 64.50    | 0.400        | 1.06          | ND             | ND              |           | 2        | WG1314191 |
| Chloroform                     | 67-66-3    | 119      | 0.400        | 1.95          | ND             | ND              |           | 2        | WG1314191 |
| Chloromethane                  | 74-87-3    | 50.50    | 0.400        | 0.826         | 0.418          | 0.864           |           | 2        | WG1314191 |
| 2-Chlorotoluene                | 95-49-8    | 126      | 0.400        | 2.06          | ND             | ND              |           | 2        | WG1314191 |
| Cyclohexane                    | 110-82-7   | 84.20    | 0.400        | 1.38          | 0.434          | 1.49            |           | 2        | WG1314191 |
| Dibromochloromethane           | 124-48-1   | 208      | 0.400        | 3.40          | ND             | ND              |           | 2        | WG1314191 |
| 1,2-Dibromoethane              | 106-93-4   | 188      | 0.400        | 3.08          | ND             | ND              |           | 2        | WG1314191 |
| 1,2-Dichlorobenzene            | 95-50-1    | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314191 |
| 1,3-Dichlorobenzene            | 541-73-1   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314191 |
| 1,4-Dichlorobenzene            | 106-46-7   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314191 |
| 1,2-Dichloroethane             | 107-06-2   | 99       | 0.400        | 1.62          | ND             | ND              |           | 2        | WG1314191 |
| 1,1-Dichloroethane             | 75-34-3    | 98       | 0.400        | 1.60          | ND             | ND              |           | 2        | WG1314191 |
| 1,1-Dichloroethene             | 75-35-4    | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314191 |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314191 |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314191 |
| 1,2-Dichloropropane            | 78-87-5    | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1314191 |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314191 |
| trans-1,3-Dichloropropene      | 10061-02-6 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314191 |
| 1,4-Dioxane                    | 123-91-1   | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314191 |
| Ethanol                        | 64-17-5    | 46.10    | 1.26         | 2.38          | 31.9           | 60.2            |           | 2        | WG1314191 |
| Ethylbenzene                   | 100-41-4   | 106      | 0.400        | 1.73          | 1.12           | 4.86            |           | 2        | WG1314191 |
| 4-Ethyltoluene                 | 622-96-8   | 120      | 0.400        | 1.96          | ND             | ND              |           | 2        | WG1314191 |
| Trichlorofluoromethane         | 75-69-4    | 137.40   | 0.400        | 2.25          | 15.7           | 88.2            |           | 2        | WG1314191 |
| Dichlorodifluoromethane        | 75-71-8    | 120.92   | 0.400        | 1.98          | 0.447          | 2.21            |           | 2        | WG1314191 |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.40   | 0.400        | 3.07          | ND             | ND              |           | 2        | WG1314191 |
| 1,2-Dichlorotetrafluoroethane  | 76-14-2    | 171      | 0.400        | 2.80          | ND             | ND              |           | 2        | WG1314191 |
| Heptane                        | 142-82-5   | 100      | 0.400        | 1.64          | 0.422          | 1.73            |           | 2        | WG1314191 |
| Hexachloro-1,3-butadiene       | 87-68-3    | 261      | 1.26         | 13.5          | ND             | ND              |           | 2        | WG1314191 |
| n-Hexane                       | 110-54-3   | 86.20    | 0.400        | 1.41          | 3.92           | 13.8            |           | 2        | WG1314191 |
| Isopropylbenzene               | 98-82-8    | 120.20   | 0.400        | 1.97          | ND             | ND              |           | 2        | WG1314191 |
| Methylene Chloride             | 75-09-2    | 84.90    | 0.400        | 1.39          | 5.86           | 20.4            |           | 2        | WG1314191 |
| Methyl Butyl Ketone            | 591-78-6   | 100      | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314191 |
| 2-Butanone (MEK)               | 78-93-3    | 72.10    | 2.50         | 7.37          | ND             | ND              |           | 2        | WG1314191 |
| 4-Methyl-2-pentanone (MIBK)    | 108-10-1   | 100.10   | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314191 |
| Methyl methacrylate            | 80-62-6    | 100.12   | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1314191 |
| MTBE                           | 1634-04-4  | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314191 |
| Naphthalene                    | 91-20-3    | 128      | 1.26         | 6.60          | ND             | ND              |           | 2        | WG1314191 |
| 2-Propanol                     | 67-63-0    | 60.10    | 2.50         | 6.15          | 6.48           | 15.9            |           | 2        | WG1314191 |
| Propene                        | 115-07-1   | 42.10    | 0.800        | 1.38          | 0.927          | 1.60            |           | 2        | WG1314191 |
| Styrene                        | 100-42-5   | 104      | 0.400        | 1.70          | 0.992          | 4.22            |           | 2        | WG1314191 |
| 1,1,2,2-Tetrachloroethane      | 79-34-5    | 168      | 0.400        | 2.75          | ND             | ND              |           | 2        | WG1314191 |
| Tetrachloroethylene            | 127-18-4   | 166      | 0.400        | 2.72          | 0.844          | 5.73            |           | 2        | WG1314191 |
| Tetrahydrofuran                | 109-99-9   | 72.10    | 0.400        | 1.18          | 2.63           | 7.75            |           | 2        | WG1314191 |
| Toluene                        | 108-88-3   | 92.10    | 0.400        | 1.51          | 7.55           | 28.4            |           | 2        | WG1314191 |
| 1,2,4-Trichlorobenzene         | 120-82-1   | 181      | 1.26         | 9.33          | ND             | ND              |           | 2        | WG1314191 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

ACCOUNT:

ATC Group Services - Novi, MI

PROJECT:

NPJBD19002

SDG:

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## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                    | CAS #     | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch                     |                 |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|---------------------------|-----------------|
| 1,1,1-Trichloroethane      | 71-55-6   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> | <sup>1</sup> Cp |
| 1,1,2-Trichloroethane      | 79-00-5   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> | <sup>2</sup> Tc |
| Trichloroethylene          | 79-01-6   | 131      | 0.400        | 2.14          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> | <sup>3</sup> Ss |
| 1,2,4-Trimethylbenzene     | 95-63-6   | 120      | 0.400        | 1.96          | 1.00           | 4.91            |           | 2        | <a href="#">WG1314191</a> | <sup>4</sup> Cn |
| 1,3,5-Trimethylbenzene     | 108-67-8  | 120      | 0.400        | 1.96          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> | <sup>5</sup> Sr |
| 2,2,4-Trimethylpentane     | 540-84-1  | 114.22   | 0.400        | 1.87          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> | <sup>6</sup> Qc |
| Vinyl chloride             | 75-01-4   | 62.50    | 0.400        | 1.02          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> | <sup>7</sup> Gl |
| Vinyl Bromide              | 593-60-2  | 106.95   | 0.400        | 1.75          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> | <sup>8</sup> Al |
| Vinyl acetate              | 108-05-4  | 86.10    | 0.400        | 1.41          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> | <sup>9</sup> Sc |
| m&p-Xylene                 | 1330-20-7 | 106      | 0.800        | 3.47          | 4.45           | 19.3            |           | 2        | <a href="#">WG1314191</a> |                 |
| o-Xylene                   | 95-47-6   | 106      | 0.400        | 1.73          | 1.52           | 6.60            |           | 2        | <a href="#">WG1314191</a> |                 |
| TPH (GC/MS) Low Fraction   | 8006-61-9 | 101      | 100          | 413           | 147            | 609             |           | 2        | <a href="#">WG1314191</a> |                 |
| 1,1-Difluoroethane         | 75-37-6   | 66.05    | 0.400        | 1.08          | 97.3           | 263             |           | 2        | <a href="#">WG1314191</a> |                 |
| 1,2,3-Trimethylbenzene     | 526-73-8  | 120.10   | 0.400        | 1.96          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |                 |
| Chlorodifluoromethane      | 75-45-6   | 86.50    | 0.400        | 1.42          | 0.449          | 1.59            |           | 2        | <a href="#">WG1314191</a> |                 |
| Dicyclopentadiene          | 77-73-6   | 132.20   | 0.400        | 2.16          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |                 |
| Ethyl acetate              | 141-78-6  | 88       | 0.400        | 1.44          | 0.848          | 3.05            |           | 2        | <a href="#">WG1314191</a> |                 |
| Methyl Cyclohexane         | 108-87-2  | 98.1860  | 0.400        | 1.61          | 0.456          | 1.83            |           | 2        | <a href="#">WG1314191</a> |                 |
| Tert-Amyl Ethyl Ether      | 919-94-8  | 116.20   | 0.400        | 1.90          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |                 |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 95.5           |                 |           |          | <a href="#">WG1314191</a> |                 |



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Volatile Organic Compounds (MS) by Method TO-15

| Analyte                        | CAS #      | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch     |
|--------------------------------|------------|----------|--------------|---------------|----------------|-----------------|-----------|----------|-----------|
| Acetone                        | 67-64-1    | 58.10    | 2.50         | 5.94          | 5.63           | 13.4            |           | 2        | WG1314191 |
| Allyl chloride                 | 107-05-1   | 76.53    | 0.400        | 1.25          | ND             | ND              |           | 2        | WG1314191 |
| Benzene                        | 71-43-2    | 78.10    | 0.400        | 1.28          | 2.24           | 7.14            |           | 2        | WG1314191 |
| Benzyl Chloride                | 100-44-7   | 127      | 0.400        | 2.08          | ND             | ND              |           | 2        | WG1314191 |
| Bromodichloromethane           | 75-27-4    | 164      | 0.400        | 2.68          | ND             | ND              |           | 2        | WG1314191 |
| Bromoform                      | 75-25-2    | 253      | 1.20         | 12.4          | ND             | ND              |           | 2        | WG1314191 |
| Bromomethane                   | 74-83-9    | 94.90    | 0.400        | 1.55          | ND             | ND              |           | 2        | WG1314191 |
| 1,3-Butadiene                  | 106-99-0   | 54.10    | 4.00         | 8.85          | ND             | ND              |           | 2        | WG1314191 |
| Carbon disulfide               | 75-15-0    | 76.10    | 0.400        | 1.24          | 5.14           | 16.0            |           | 2        | WG1314191 |
| Carbon tetrachloride           | 56-23-5    | 154      | 0.400        | 2.52          | ND             | ND              |           | 2        | WG1314191 |
| Chlorobenzene                  | 108-90-7   | 113      | 0.400        | 1.85          | 1.97           | 9.08            |           | 2        | WG1314191 |
| Chloroethane                   | 75-00-3    | 64.50    | 0.400        | 1.06          | ND             | ND              |           | 2        | WG1314191 |
| Chloroform                     | 67-66-3    | 119      | 0.400        | 1.95          | ND             | ND              |           | 2        | WG1314191 |
| Chloromethane                  | 74-87-3    | 50.50    | 0.400        | 0.826         | ND             | ND              |           | 2        | WG1314191 |
| 2-Chlorotoluene                | 95-49-8    | 126      | 0.400        | 2.06          | ND             | ND              |           | 2        | WG1314191 |
| Cyclohexane                    | 110-82-7   | 84.20    | 0.400        | 1.38          | ND             | ND              |           | 2        | WG1314191 |
| Dibromochloromethane           | 124-48-1   | 208      | 0.400        | 3.40          | ND             | ND              |           | 2        | WG1314191 |
| 1,2-Dibromoethane              | 106-93-4   | 188      | 0.400        | 3.08          | ND             | ND              |           | 2        | WG1314191 |
| 1,2-Dichlorobenzene            | 95-50-1    | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314191 |
| 1,3-Dichlorobenzene            | 541-73-1   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314191 |
| 1,4-Dichlorobenzene            | 106-46-7   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314191 |
| 1,2-Dichloroethane             | 107-06-2   | 99       | 0.400        | 1.62          | ND             | ND              |           | 2        | WG1314191 |
| 1,1-Dichloroethane             | 75-34-3    | 98       | 0.400        | 1.60          | ND             | ND              |           | 2        | WG1314191 |
| 1,1-Dichloroethene             | 75-35-4    | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314191 |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314191 |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314191 |
| 1,2-Dichloropropane            | 78-87-5    | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1314191 |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314191 |
| trans-1,3-Dichloropropene      | 10061-02-6 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314191 |
| 1,4-Dioxane                    | 123-91-1   | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314191 |
| Ethanol                        | 64-17-5    | 46.10    | 1.26         | 2.38          | 16.3           | 30.7            |           | 2        | WG1314191 |
| Ethylbenzene                   | 100-41-4   | 106      | 0.400        | 1.73          | 1.61           | 6.99            |           | 2        | WG1314191 |
| 4-Ethyltoluene                 | 622-96-8   | 120      | 0.400        | 1.96          | 0.444          | 2.18            |           | 2        | WG1314191 |
| Trichlorofluoromethane         | 75-69-4    | 137.40   | 0.400        | 2.25          | ND             | ND              |           | 2        | WG1314191 |
| Dichlorodifluoromethane        | 75-71-8    | 120.92   | 0.400        | 1.98          | 0.442          | 2.19            |           | 2        | WG1314191 |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.40   | 0.400        | 3.07          | ND             | ND              |           | 2        | WG1314191 |
| 1,2-Dichlorotetrafluoroethane  | 76-14-2    | 171      | 0.400        | 2.80          | ND             | ND              |           | 2        | WG1314191 |
| Heptane                        | 142-82-5   | 100      | 0.400        | 1.64          | 0.443          | 1.81            |           | 2        | WG1314191 |
| Hexachloro-1,3-butadiene       | 87-68-3    | 261      | 1.26         | 13.5          | ND             | ND              |           | 2        | WG1314191 |
| n-Hexane                       | 110-54-3   | 86.20    | 0.400        | 1.41          | 0.532          | 1.87            |           | 2        | WG1314191 |
| Isopropylbenzene               | 98-82-8    | 120.20   | 0.400        | 1.97          | ND             | ND              |           | 2        | WG1314191 |
| Methylene Chloride             | 75-09-2    | 84.90    | 0.400        | 1.39          | ND             | ND              |           | 2        | WG1314191 |
| Methyl Butyl Ketone            | 591-78-6   | 100      | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314191 |
| 2-Butanone (MEK)               | 78-93-3    | 72.10    | 2.50         | 7.37          | ND             | ND              |           | 2        | WG1314191 |
| 4-Methyl-2-pentanone (MIBK)    | 108-10-1   | 100.10   | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314191 |
| Methyl methacrylate            | 80-62-6    | 100.12   | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1314191 |
| MTBE                           | 1634-04-4  | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314191 |
| Naphthalene                    | 91-20-3    | 128      | 1.26         | 6.60          | ND             | ND              |           | 2        | WG1314191 |
| 2-Propanol                     | 67-63-0    | 60.10    | 2.50         | 6.15          | ND             | ND              |           | 2        | WG1314191 |
| Propene                        | 115-07-1   | 42.10    | 0.800        | 1.38          | 1.01           | 1.74            |           | 2        | WG1314191 |
| Styrene                        | 100-42-5   | 104      | 0.400        | 1.70          | 1.35           | 5.75            |           | 2        | WG1314191 |
| 1,1,2,2-Tetrachloroethane      | 79-34-5    | 168      | 0.400        | 2.75          | ND             | ND              |           | 2        | WG1314191 |
| Tetrachloroethylene            | 127-18-4   | 166      | 0.400        | 2.72          | ND             | ND              |           | 2        | WG1314191 |
| Tetrahydrofuran                | 109-99-9   | 72.10    | 0.400        | 1.18          | 2.03           | 6.00            |           | 2        | WG1314191 |
| Toluene                        | 108-88-3   | 92.10    | 0.400        | 1.51          | 22.3           | 84.2            |           | 2        | WG1314191 |
| 1,2,4-Trichlorobenzene         | 120-82-1   | 181      | 1.26         | 9.33          | ND             | ND              |           | 2        | WG1314191 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 07/15/19 12:08

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## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                    | CAS #     | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch                     |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|---------------------------|
| 1,1,1-Trichloroethane      | 71-55-6   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| 1,1,2-Trichloroethane      | 79-00-5   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| Trichloroethylene          | 79-01-6   | 131      | 0.400        | 2.14          | 0.471          | 2.52            |           | 2        | <a href="#">WG1314191</a> |
| 1,2,4-Trimethylbenzene     | 95-63-6   | 120      | 0.400        | 1.96          | 2.02           | 9.91            |           | 2        | <a href="#">WG1314191</a> |
| 1,3,5-Trimethylbenzene     | 108-67-8  | 120      | 0.400        | 1.96          | 0.537          | 2.63            |           | 2        | <a href="#">WG1314191</a> |
| 2,2,4-Trimethylpentane     | 540-84-1  | 114.22   | 0.400        | 1.87          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| Vinyl chloride             | 75-01-4   | 62.50    | 0.400        | 1.02          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| Vinyl Bromide              | 593-60-2  | 106.95   | 0.400        | 1.75          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| Vinyl acetate              | 108-05-4  | 86.10    | 0.400        | 1.41          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| m&p-Xylene                 | 1330-20-7 | 106      | 0.800        | 3.47          | 6.93           | 30.0            |           | 2        | <a href="#">WG1314191</a> |
| o-Xylene                   | 95-47-6   | 106      | 0.400        | 1.73          | 2.55           | 11.0            |           | 2        | <a href="#">WG1314191</a> |
| TPH (GC/MS) Low Fraction   | 8006-61-9 | 101      | 100          | 413           | 251            | 1040            |           | 2        | <a href="#">WG1314191</a> |
| 1,1-Difluoroethane         | 75-37-6   | 66.05    | 0.400        | 1.08          | 1.16           | 3.14            |           | 2        | <a href="#">WG1314191</a> |
| 1,2,3-Trimethylbenzene     | 526-73-8  | 120.10   | 0.400        | 1.96          | 0.412          | 2.02            |           | 2        | <a href="#">WG1314191</a> |
| Chlorodifluoromethane      | 75-45-6   | 86.50    | 0.400        | 1.42          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| Dicyclopentadiene          | 77-73-6   | 132.20   | 0.400        | 2.16          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| Ethyl acetate              | 141-78-6  | 88       | 0.400        | 1.44          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| Methyl Cyclohexane         | 108-87-2  | 98.1860  | 0.400        | 1.61          | 0.463          | 1.86            |           | 2        | <a href="#">WG1314191</a> |
| Tert-Amyl Ethyl Ether      | 919-94-8  | 116.20   | 0.400        | 1.90          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 96.4           |                 |           |          | <a href="#">WG1314191</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 07/15/19 12:09

L119489

## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                        | CAS #      | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch     |
|--------------------------------|------------|----------|--------------|---------------|----------------|-----------------|-----------|----------|-----------|
| Acetone                        | 67-64-1    | 58.10    | 2.50         | 5.94          | ND             | ND              |           | 2        | WG1314191 |
| Allyl chloride                 | 107-05-1   | 76.53    | 0.400        | 1.25          | ND             | ND              |           | 2        | WG1314191 |
| Benzene                        | 71-43-2    | 78.10    | 0.400        | 1.28          | ND             | ND              |           | 2        | WG1314191 |
| Benzyl Chloride                | 100-44-7   | 127      | 0.400        | 2.08          | ND             | ND              |           | 2        | WG1314191 |
| Bromodichloromethane           | 75-27-4    | 164      | 0.400        | 2.68          | ND             | ND              |           | 2        | WG1314191 |
| Bromoform                      | 75-25-2    | 253      | 1.20         | 12.4          | ND             | ND              |           | 2        | WG1314191 |
| Bromomethane                   | 74-83-9    | 94.90    | 0.400        | 1.55          | ND             | ND              |           | 2        | WG1314191 |
| 1,3-Butadiene                  | 106-99-0   | 54.10    | 4.00         | 8.85          | ND             | ND              |           | 2        | WG1314191 |
| Carbon disulfide               | 75-15-0    | 76.10    | 0.400        | 1.24          | 1.45           | 4.52            |           | 2        | WG1314191 |
| Carbon tetrachloride           | 56-23-5    | 154      | 0.400        | 2.52          | ND             | ND              |           | 2        | WG1314191 |
| Chlorobenzene                  | 108-90-7   | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1314191 |
| Chloroethane                   | 75-00-3    | 64.50    | 0.400        | 1.06          | ND             | ND              |           | 2        | WG1314191 |
| Chloroform                     | 67-66-3    | 119      | 0.400        | 1.95          | ND             | ND              |           | 2        | WG1314191 |
| Chloromethane                  | 74-87-3    | 50.50    | 0.400        | 0.826         | ND             | ND              |           | 2        | WG1314191 |
| 2-Chlorotoluene                | 95-49-8    | 126      | 0.400        | 2.06          | ND             | ND              |           | 2        | WG1314191 |
| Cyclohexane                    | 110-82-7   | 84.20    | 0.400        | 1.38          | ND             | ND              |           | 2        | WG1314191 |
| Dibromochloromethane           | 124-48-1   | 208      | 0.400        | 3.40          | ND             | ND              |           | 2        | WG1314191 |
| 1,2-Dibromoethane              | 106-93-4   | 188      | 0.400        | 3.08          | ND             | ND              |           | 2        | WG1314191 |
| 1,2-Dichlorobenzene            | 95-50-1    | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314191 |
| 1,3-Dichlorobenzene            | 541-73-1   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314191 |
| 1,4-Dichlorobenzene            | 106-46-7   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314191 |
| 1,2-Dichloroethane             | 107-06-2   | 99       | 0.400        | 1.62          | ND             | ND              |           | 2        | WG1314191 |
| 1,1-Dichloroethane             | 75-34-3    | 98       | 0.400        | 1.60          | ND             | ND              |           | 2        | WG1314191 |
| 1,1-Dichloroethene             | 75-35-4    | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314191 |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314191 |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314191 |
| 1,2-Dichloropropane            | 78-87-5    | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1314191 |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314191 |
| trans-1,3-Dichloropropene      | 10061-02-6 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314191 |
| 1,4-Dioxane                    | 123-91-1   | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314191 |
| Ethanol                        | 64-17-5    | 46.10    | 1.26         | 2.38          | 3.41           | 6.42            |           | 2        | WG1314191 |
| Ethylbenzene                   | 100-41-4   | 106      | 0.400        | 1.73          | 0.757          | 3.28            |           | 2        | WG1314191 |
| 4-Ethyltoluene                 | 622-96-8   | 120      | 0.400        | 1.96          | ND             | ND              |           | 2        | WG1314191 |
| Trichlorofluoromethane         | 75-69-4    | 137.40   | 0.400        | 2.25          | 33.3           | 187             |           | 2        | WG1314191 |
| Dichlorodifluoromethane        | 75-71-8    | 120.92   | 0.400        | 1.98          | 0.464          | 2.30            |           | 2        | WG1314191 |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.40   | 0.400        | 3.07          | ND             | ND              |           | 2        | WG1314191 |
| 1,2-Dichlorotetrafluoroethane  | 76-14-2    | 171      | 0.400        | 2.80          | ND             | ND              |           | 2        | WG1314191 |
| Heptane                        | 142-82-5   | 100      | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1314191 |
| Hexachloro-1,3-butadiene       | 87-68-3    | 261      | 1.26         | 13.5          | ND             | ND              |           | 2        | WG1314191 |
| n-Hexane                       | 110-54-3   | 86.20    | 0.400        | 1.41          | ND             | ND              |           | 2        | WG1314191 |
| Isopropylbenzene               | 98-82-8    | 120.20   | 0.400        | 1.97          | ND             | ND              |           | 2        | WG1314191 |
| Methylene Chloride             | 75-09-2    | 84.90    | 0.400        | 1.39          | ND             | ND              |           | 2        | WG1314191 |
| Methyl Butyl Ketone            | 591-78-6   | 100      | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314191 |
| 2-Butanone (MEK)               | 78-93-3    | 72.10    | 2.50         | 7.37          | ND             | ND              |           | 2        | WG1314191 |
| 4-Methyl-2-pentanone (MIBK)    | 108-10-1   | 100.10   | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314191 |
| Methyl methacrylate            | 80-62-6    | 100.12   | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1314191 |
| MTBE                           | 1634-04-4  | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314191 |
| Naphthalene                    | 91-20-3    | 128      | 1.26         | 6.60          | ND             | ND              |           | 2        | WG1314191 |
| 2-Propanol                     | 67-63-0    | 60.10    | 2.50         | 6.15          | ND             | ND              |           | 2        | WG1314191 |
| Propene                        | 115-07-1   | 42.10    | 0.800        | 1.38          | ND             | ND              |           | 2        | WG1314191 |
| Styrene                        | 100-42-5   | 104      | 0.400        | 1.70          | 0.487          | 2.07            |           | 2        | WG1314191 |
| 1,1,2,2-Tetrachloroethane      | 79-34-5    | 168      | 0.400        | 2.75          | ND             | ND              |           | 2        | WG1314191 |
| Tetrachloroethylene            | 127-18-4   | 166      | 0.400        | 2.72          | 0.839          | 5.69            |           | 2        | WG1314191 |
| Tetrahydrofuran                | 109-99-9   | 72.10    | 0.400        | 1.18          | ND             | ND              |           | 2        | WG1314191 |
| Toluene                        | 108-88-3   | 92.10    | 0.400        | 1.51          | 4.89           | 18.4            |           | 2        | WG1314191 |
| 1,2,4-Trichlorobenzene         | 120-82-1   | 181      | 1.26         | 9.33          | ND             | ND              |           | 2        | WG1314191 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

ACCOUNT:

ATC Group Services - Novi, MI

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## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                    | CAS #     | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch                     |                 |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|---------------------------|-----------------|
| 1,1,1-Trichloroethane      | 71-55-6   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> | <sup>1</sup> Cp |
| 1,1,2-Trichloroethane      | 79-00-5   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> | <sup>2</sup> Tc |
| Trichloroethylene          | 79-01-6   | 131      | 0.400        | 2.14          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> | <sup>3</sup> Ss |
| 1,2,4-Trimethylbenzene     | 95-63-6   | 120      | 0.400        | 1.96          | 1.59           | 7.78            |           | 2        | <a href="#">WG1314191</a> | <sup>4</sup> Cn |
| 1,3,5-Trimethylbenzene     | 108-67-8  | 120      | 0.400        | 1.96          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> | <sup>5</sup> Sr |
| 2,2,4-Trimethylpentane     | 540-84-1  | 114.22   | 0.400        | 1.87          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> | <sup>6</sup> Qc |
| Vinyl chloride             | 75-01-4   | 62.50    | 0.400        | 1.02          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> | <sup>7</sup> Gl |
| Vinyl Bromide              | 593-60-2  | 106.95   | 0.400        | 1.75          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> | <sup>8</sup> Al |
| Vinyl acetate              | 108-05-4  | 86.10    | 0.400        | 1.41          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> | <sup>9</sup> Sc |
| m&p-Xylene                 | 1330-20-7 | 106      | 0.800        | 3.47          | 3.62           | 15.7            |           | 2        | <a href="#">WG1314191</a> |                 |
| o-Xylene                   | 95-47-6   | 106      | 0.400        | 1.73          | 1.40           | 6.08            |           | 2        | <a href="#">WG1314191</a> |                 |
| TPH (GC/MS) Low Fraction   | 8006-61-9 | 101      | 100          | 413           | 130            | 537             |           | 2        | <a href="#">WG1314191</a> |                 |
| 1,1-Difluoroethane         | 75-37-6   | 66.05    | 0.400        | 1.08          | 1.18           | 3.20            |           | 2        | <a href="#">WG1314191</a> |                 |
| 1,2,3-Trimethylbenzene     | 526-73-8  | 120.10   | 0.400        | 1.96          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |                 |
| Chlorodifluoromethane      | 75-45-6   | 86.50    | 0.400        | 1.42          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |                 |
| Dicyclopentadiene          | 77-73-6   | 132.20   | 0.400        | 2.16          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |                 |
| Ethyl acetate              | 141-78-6  | 88       | 0.400        | 1.44          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |                 |
| Methyl Cyclohexane         | 108-87-2  | 98.1860  | 0.400        | 1.61          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |                 |
| Tert-Amyl Ethyl Ether      | 919-94-8  | 116.20   | 0.400        | 1.90          | ND             | ND              |           | 2        | <a href="#">WG1314191</a> |                 |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 95.6           |                 |           |          | <a href="#">WG1314191</a> |                 |





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## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                        | CAS #      | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch     |
|--------------------------------|------------|----------|--------------|---------------|----------------|-----------------|-----------|----------|-----------|
| Acetone                        | 67-64-1    | 58.10    | 2.50         | 5.94          | 13.5           | 32.1            |           | 2        | WG1314725 |
| Allyl chloride                 | 107-05-1   | 76.53    | 0.400        | 1.25          | ND             | ND              |           | 2        | WG1314725 |
| Benzene                        | 71-43-2    | 78.10    | 0.400        | 1.28          | ND             | ND              |           | 2        | WG1314725 |
| Benzyl Chloride                | 100-44-7   | 127      | 0.400        | 2.08          | ND             | ND              |           | 2        | WG1314725 |
| Bromodichloromethane           | 75-27-4    | 164      | 0.400        | 2.68          | ND             | ND              |           | 2        | WG1314725 |
| Bromoform                      | 75-25-2    | 253      | 1.20         | 12.4          | ND             | ND              |           | 2        | WG1314725 |
| Bromomethane                   | 74-83-9    | 94.90    | 0.400        | 1.55          | ND             | ND              |           | 2        | WG1314725 |
| 1,3-Butadiene                  | 106-99-0   | 54.10    | 4.00         | 8.85          | ND             | ND              |           | 2        | WG1314725 |
| Carbon disulfide               | 75-15-0    | 76.10    | 0.400        | 1.24          | ND             | ND              |           | 2        | WG1314725 |
| Carbon tetrachloride           | 56-23-5    | 154      | 0.400        | 2.52          | ND             | ND              |           | 2        | WG1314725 |
| Chlorobenzene                  | 108-90-7   | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1314725 |
| Chloroethane                   | 75-00-3    | 64.50    | 0.400        | 1.06          | ND             | ND              |           | 2        | WG1314725 |
| Chloroform                     | 67-66-3    | 119      | 0.400        | 1.95          | ND             | ND              |           | 2        | WG1314725 |
| Chloromethane                  | 74-87-3    | 50.50    | 0.400        | 0.826         | 0.445          | 0.919           |           | 2        | WG1314725 |
| 2-Chlorotoluene                | 95-49-8    | 126      | 0.400        | 2.06          | ND             | ND              |           | 2        | WG1314725 |
| Cyclohexane                    | 110-82-7   | 84.20    | 0.400        | 1.38          | ND             | ND              |           | 2        | WG1314725 |
| Dibromochloromethane           | 124-48-1   | 208      | 0.400        | 3.40          | ND             | ND              |           | 2        | WG1314725 |
| 1,2-Dibromoethane              | 106-93-4   | 188      | 0.400        | 3.08          | ND             | ND              |           | 2        | WG1314725 |
| 1,2-Dichlorobenzene            | 95-50-1    | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314725 |
| 1,3-Dichlorobenzene            | 541-73-1   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314725 |
| 1,4-Dichlorobenzene            | 106-46-7   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314725 |
| 1,2-Dichloroethane             | 107-06-2   | 99       | 0.400        | 1.62          | ND             | ND              |           | 2        | WG1314725 |
| 1,1-Dichloroethane             | 75-34-3    | 98       | 0.400        | 1.60          | ND             | ND              |           | 2        | WG1314725 |
| 1,1-Dichloroethene             | 75-35-4    | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314725 |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314725 |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314725 |
| 1,2-Dichloropropane            | 78-87-5    | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1314725 |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314725 |
| trans-1,3-Dichloropropene      | 10061-02-6 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314725 |
| 1,4-Dioxane                    | 123-91-1   | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314725 |
| Ethanol                        | 64-17-5    | 46.10    | 1.26         | 2.38          | 9.84           | 18.5            |           | 2        | WG1314725 |
| Ethylbenzene                   | 100-41-4   | 106      | 0.400        | 1.73          | 0.522          | 2.26            |           | 2        | WG1314725 |
| 4-Ethyltoluene                 | 622-96-8   | 120      | 0.400        | 1.96          | 0.549          | 2.70            |           | 2        | WG1314725 |
| Trichlorofluoromethane         | 75-69-4    | 137.40   | 0.400        | 2.25          | 6.61           | 37.1            |           | 2        | WG1314725 |
| Dichlorodifluoromethane        | 75-71-8    | 120.92   | 0.400        | 1.98          | 0.569          | 2.81            |           | 2        | WG1314725 |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.40   | 0.400        | 3.07          | ND             | ND              |           | 2        | WG1314725 |
| 1,2-Dichlorotetrafluoroethane  | 76-14-2    | 171      | 0.400        | 2.80          | ND             | ND              |           | 2        | WG1314725 |
| Heptane                        | 142-82-5   | 100      | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1314725 |
| Hexachloro-1,3-butadiene       | 87-68-3    | 261      | 1.26         | 13.5          | ND             | ND              |           | 2        | WG1314725 |
| n-Hexane                       | 110-54-3   | 86.20    | 0.400        | 1.41          | 0.472          | 1.66            |           | 2        | WG1314725 |
| Isopropylbenzene               | 98-82-8    | 120.20   | 0.400        | 1.97          | ND             | ND              |           | 2        | WG1314725 |
| Methylene Chloride             | 75-09-2    | 84.90    | 0.400        | 1.39          | 1.95           | 6.77            |           | 2        | WG1314725 |
| Methyl Butyl Ketone            | 591-78-6   | 100      | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314725 |
| 2-Butanone (MEK)               | 78-93-3    | 72.10    | 2.50         | 7.37          | ND             | ND              |           | 2        | WG1314725 |
| 4-Methyl-2-pentanone (MIBK)    | 108-10-1   | 100.10   | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314725 |
| Methyl methacrylate            | 80-62-6    | 100.12   | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1314725 |
| MTBE                           | 1634-04-4  | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314725 |
| Naphthalene                    | 91-20-3    | 128      | 1.26         | 6.60          | ND             | ND              |           | 2        | WG1314725 |
| 2-Propanol                     | 67-63-0    | 60.10    | 2.50         | 6.15          | ND             | ND              |           | 2        | WG1314725 |
| Propene                        | 115-07-1   | 42.10    | 0.800        | 1.38          | ND             | ND              |           | 2        | WG1314725 |
| Styrene                        | 100-42-5   | 104      | 0.400        | 1.70          | 0.469          | 1.99            |           | 2        | WG1314725 |
| 1,1,2,2-Tetrachloroethane      | 79-34-5    | 168      | 0.400        | 2.75          | ND             | ND              |           | 2        | WG1314725 |
| Tetrachloroethylene            | 127-18-4   | 166      | 5.00         | 33.9          | 217            | 1470            |           | 25       | WG1315799 |
| Tetrahydrofuran                | 109-99-9   | 72.10    | 0.400        | 1.18          | ND             | ND              |           | 2        | WG1314725 |
| Toluene                        | 108-88-3   | 92.10    | 0.400        | 1.51          | 2.73           | 10.3            |           | 2        | WG1314725 |
| 1,2,4-Trichlorobenzene         | 120-82-1   | 181      | 1.26         | 9.33          | ND             | ND              |           | 2        | WG1314725 |

1 Cp

2 Tc

3 Ss

4 Cn

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7 Gl

8 Al

9 Sc

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ATC Group Services - Novi, MI

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## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                    | CAS #     | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch                     |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|---------------------------|
| 1,1,1-Trichloroethane      | 71-55-6   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1314725</a> |
| 1,1,2-Trichloroethane      | 79-00-5   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1314725</a> |
| Trichloroethylene          | 79-01-6   | 131      | 0.400        | 2.14          | 0.743          | 3.98            |           | 2        | <a href="#">WG1314725</a> |
| 1,2,4-Trimethylbenzene     | 95-63-6   | 120      | 0.400        | 1.96          | 0.962          | 4.72            |           | 2        | <a href="#">WG1314725</a> |
| 1,3,5-Trimethylbenzene     | 108-67-8  | 120      | 0.400        | 1.96          | ND             | ND              |           | 2        | <a href="#">WG1314725</a> |
| 2,2,4-Trimethylpentane     | 540-84-1  | 114.22   | 0.400        | 1.87          | ND             | ND              |           | 2        | <a href="#">WG1314725</a> |
| Vinyl chloride             | 75-01-4   | 62.50    | 0.400        | 1.02          | ND             | ND              |           | 2        | <a href="#">WG1314725</a> |
| Vinyl Bromide              | 593-60-2  | 106.95   | 0.400        | 1.75          | ND             | ND              |           | 2        | <a href="#">WG1314725</a> |
| Vinyl acetate              | 108-05-4  | 86.10    | 0.400        | 1.41          | ND             | ND              |           | 2        | <a href="#">WG1314725</a> |
| m&p-Xylene                 | 1330-20-7 | 106      | 0.800        | 3.47          | 2.22           | 9.64            |           | 2        | <a href="#">WG1314725</a> |
| o-Xylene                   | 95-47-6   | 106      | 0.400        | 1.73          | 0.881          | 3.82            |           | 2        | <a href="#">WG1314725</a> |
| TPH (GC/MS) Low Fraction   | 8006-61-9 | 101      | 100          | 413           | 393            | 1620            |           | 2        | <a href="#">WG1314725</a> |
| 1,1-Difluoroethane         | 75-37-6   | 66.05    | 0.400        | 1.08          | 2.16           | 5.83            |           | 2        | <a href="#">WG1314725</a> |
| 1,2,3-Trimethylbenzene     | 526-73-8  | 120.10   | 0.400        | 1.96          | ND             | ND              |           | 2        | <a href="#">WG1314725</a> |
| Chlorodifluoromethane      | 75-45-6   | 86.50    | 0.400        | 1.42          | 0.431          | 1.52            |           | 2        | <a href="#">WG1314725</a> |
| Dicyclopentadiene          | 77-73-6   | 132.20   | 0.400        | 2.16          | ND             | ND              |           | 2        | <a href="#">WG1314725</a> |
| Ethyl acetate              | 141-78-6  | 88       | 0.400        | 1.44          | ND             | ND              |           | 2        | <a href="#">WG1314725</a> |
| Methyl Cyclohexane         | 108-87-2  | 98.1860  | 0.400        | 1.61          | ND             | ND              |           | 2        | <a href="#">WG1314725</a> |
| Tert-Amyl Ethyl Ether      | 919-94-8  | 116.20   | 0.400        | 1.90          | ND             | ND              |           | 2        | <a href="#">WG1314725</a> |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 102            |                 |           |          | <a href="#">WG1314725</a> |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 85.3           |                 |           |          | <a href="#">WG1315799</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 07/15/19 12:11

L1119489

## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                        | CAS #      | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch     |
|--------------------------------|------------|----------|--------------|---------------|----------------|-----------------|-----------|----------|-----------|
| Acetone                        | 67-64-1    | 58.10    | 2.50         | 5.94          | ND             | ND              |           | 2        | WG1314190 |
| Allyl chloride                 | 107-05-1   | 76.53    | 0.400        | 1.25          | ND             | ND              |           | 2        | WG1314190 |
| Benzene                        | 71-43-2    | 78.10    | 0.400        | 1.28          | ND             | ND              |           | 2        | WG1314190 |
| Benzyl Chloride                | 100-44-7   | 127      | 0.400        | 2.08          | ND             | ND              |           | 2        | WG1314190 |
| Bromodichloromethane           | 75-27-4    | 164      | 0.400        | 2.68          | ND             | ND              |           | 2        | WG1314190 |
| Bromoform                      | 75-25-2    | 253      | 1.20         | 12.4          | ND             | ND              |           | 2        | WG1314190 |
| Bromomethane                   | 74-83-9    | 94.90    | 0.400        | 1.55          | ND             | ND              |           | 2        | WG1314190 |
| 1,3-Butadiene                  | 106-99-0   | 54.10    | 4.00         | 8.85          | ND             | ND              |           | 2        | WG1314190 |
| Carbon disulfide               | 75-15-0    | 76.10    | 0.400        | 1.24          | 1.32           | 4.10            |           | 2        | WG1314190 |
| Carbon tetrachloride           | 56-23-5    | 154      | 0.400        | 2.52          | 1.04           | 6.53            |           | 2        | WG1314190 |
| Chlorobenzene                  | 108-90-7   | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1314190 |
| Chloroethane                   | 75-00-3    | 64.50    | 0.400        | 1.06          | 0.489          | 1.29            |           | 2        | WG1314190 |
| Chloroform                     | 67-66-3    | 119      | 0.400        | 1.95          | 1.15           | 5.58            |           | 2        | WG1314190 |
| Chloromethane                  | 74-87-3    | 50.50    | 0.400        | 0.826         | ND             | ND              |           | 2        | WG1314190 |
| 2-Chlorotoluene                | 95-49-8    | 126      | 0.400        | 2.06          | ND             | ND              |           | 2        | WG1314190 |
| Cyclohexane                    | 110-82-7   | 84.20    | 0.400        | 1.38          | ND             | ND              |           | 2        | WG1314190 |
| Dibromochloromethane           | 124-48-1   | 208      | 0.400        | 3.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dibromoethane              | 106-93-4   | 188      | 0.400        | 3.08          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichlorobenzene            | 95-50-1    | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,3-Dichlorobenzene            | 541-73-1   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,4-Dichlorobenzene            | 106-46-7   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichloroethane             | 107-06-2   | 99       | 0.400        | 1.62          | 0.629          | 2.55            |           | 2        | WG1314190 |
| 1,1-Dichloroethane             | 75-34-3    | 98       | 0.400        | 1.60          | ND             | ND              |           | 2        | WG1314190 |
| 1,1-Dichloroethene             | 75-35-4    | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichloropropane            | 78-87-5    | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1314190 |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314190 |
| trans-1,3-Dichloropropene      | 10061-02-6 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314190 |
| 1,4-Dioxane                    | 123-91-1   | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314190 |
| Ethanol                        | 64-17-5    | 46.10    | 1.26         | 2.38          | 19.3           | 36.3            |           | 2        | WG1314190 |
| Ethylbenzene                   | 100-41-4   | 106      | 0.400        | 1.73          | 1.13           | 4.89            |           | 2        | WG1314190 |
| 4-Ethyltoluene                 | 622-96-8   | 120      | 0.400        | 1.96          | 0.606          | 2.97            |           | 2        | WG1314190 |
| Trichlorofluoromethane         | 75-69-4    | 137.40   | 0.400        | 2.25          | 22.4           | 126             |           | 2        | WG1314190 |
| Dichlorodifluoromethane        | 75-71-8    | 120.92   | 0.400        | 1.98          | 0.508          | 2.51            |           | 2        | WG1314190 |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.40   | 0.400        | 3.07          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichlorotetrafluoroethane  | 76-14-2    | 171      | 0.400        | 2.80          | ND             | ND              |           | 2        | WG1314190 |
| Heptane                        | 142-82-5   | 100      | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1314190 |
| Hexachloro-1,3-butadiene       | 87-68-3    | 261      | 1.26         | 13.5          | ND             | ND              |           | 2        | WG1314190 |
| n-Hexane                       | 110-54-3   | 86.20    | 0.400        | 1.41          | ND             | ND              |           | 2        | WG1314190 |
| Isopropylbenzene               | 98-82-8    | 120.20   | 0.400        | 1.97          | ND             | ND              |           | 2        | WG1314190 |
| Methylene Chloride             | 75-09-2    | 84.90    | 0.400        | 1.39          | ND             | ND              |           | 2        | WG1314190 |
| Methyl Butyl Ketone            | 591-78-6   | 100      | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314190 |
| 2-Butanone (MEK)               | 78-93-3    | 72.10    | 2.50         | 7.37          | ND             | ND              |           | 2        | WG1314190 |
| 4-Methyl-2-pentanone (MIBK)    | 108-10-1   | 100.10   | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314190 |
| Methyl methacrylate            | 80-62-6    | 100.12   | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1314190 |
| MTBE                           | 1634-04-4  | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314190 |
| Naphthalene                    | 91-20-3    | 128      | 1.26         | 6.60          | ND             | ND              |           | 2        | WG1314190 |
| 2-Propanol                     | 67-63-0    | 60.10    | 2.50         | 6.15          | ND             | ND              |           | 2        | WG1314190 |
| Propene                        | 115-07-1   | 42.10    | 0.800        | 1.38          | ND             | ND              |           | 2        | WG1314190 |
| Styrene                        | 100-42-5   | 104      | 0.400        | 1.70          | 0.443          | 1.88            |           | 2        | WG1314190 |
| 1,1,2,2-Tetrachloroethane      | 79-34-5    | 168      | 0.400        | 2.75          | ND             | ND              |           | 2        | WG1314190 |
| Tetrachloroethylene            | 127-18-4   | 166      | 0.400        | 2.72          | 61.9           | 420             |           | 2        | WG1314190 |
| Tetrahydrofuran                | 109-99-9   | 72.10    | 0.400        | 1.18          | ND             | ND              |           | 2        | WG1314190 |
| Toluene                        | 108-88-3   | 92.10    | 0.400        | 1.51          | 3.03           | 11.4            |           | 2        | WG1314190 |
| 1,2,4-Trichlorobenzene         | 120-82-1   | 181      | 1.26         | 9.33          | ND             | ND              |           | 2        | WG1314190 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

ACCOUNT:

ATC Group Services - Novi, MI

PROJECT:

NPJBD19002

SDG:

L1119489

DATE/TIME:

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Collected date/time: 07/15/19 12:11

L1119489

## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                    | CAS #     | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch                     |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|---------------------------|
| 1,1,1-Trichloroethane      | 71-55-6   | 133      | 0.400        | 2.18          | 0.971          | 5.28            |           | 2        | <a href="#">WG1314190</a> |
| 1,1,2-Trichloroethane      | 79-00-5   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Trichloroethylene          | 79-01-6   | 131      | 0.400        | 2.14          | 26.2           | 140             |           | 2        | <a href="#">WG1314190</a> |
| 1,2,4-Trimethylbenzene     | 95-63-6   | 120      | 0.400        | 1.96          | 2.32           | 11.4            |           | 2        | <a href="#">WG1314190</a> |
| 1,3,5-Trimethylbenzene     | 108-67-8  | 120      | 0.400        | 1.96          | 0.616          | 3.03            |           | 2        | <a href="#">WG1314190</a> |
| 2,2,4-Trimethylpentane     | 540-84-1  | 114.22   | 0.400        | 1.87          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Vinyl chloride             | 75-01-4   | 62.50    | 0.400        | 1.02          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Vinyl Bromide              | 593-60-2  | 106.95   | 0.400        | 1.75          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Vinyl acetate              | 108-05-4  | 86.10    | 0.400        | 1.41          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| m&p-Xylene                 | 1330-20-7 | 106      | 0.800        | 3.47          | 4.85           | 21.0            |           | 2        | <a href="#">WG1314190</a> |
| o-Xylene                   | 95-47-6   | 106      | 0.400        | 1.73          | 1.92           | 8.32            |           | 2        | <a href="#">WG1314190</a> |
| TPH (GC/MS) Low Fraction   | 8006-61-9 | 101      | 100          | 413           | 279            | 1150            | B         | 2        | <a href="#">WG1314190</a> |
| 1,1-Difluoroethane         | 75-37-6   | 66.05    | 0.400        | 1.08          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| 1,2,3-Trimethylbenzene     | 526-73-8  | 120.10   | 0.400        | 1.96          | 0.572          | 2.81            |           | 2        | <a href="#">WG1314190</a> |
| Chlorodifluoromethane      | 75-45-6   | 86.50    | 0.400        | 1.42          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Dicyclopentadiene          | 77-73-6   | 132.20   | 0.400        | 2.16          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Ethyl acetate              | 141-78-6  | 88       | 0.400        | 1.44          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Methyl Cyclohexane         | 108-87-2  | 98.1860  | 0.400        | 1.61          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Tert-Amyl Ethyl Ether      | 919-94-8  | 116.20   | 0.400        | 1.90          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 97.4           |                 |           |          | <a href="#">WG1314190</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 07/15/19 13:28

L119489

## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                        | CAS #      | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch     |
|--------------------------------|------------|----------|--------------|---------------|----------------|-----------------|-----------|----------|-----------|
| Acetone                        | 67-64-1    | 58.10    | 2.50         | 5.94          | 5.61           | 13.3            |           | 2        | WG1314190 |
| Allyl chloride                 | 107-05-1   | 76.53    | 0.400        | 1.25          | ND             | ND              |           | 2        | WG1314190 |
| Benzene                        | 71-43-2    | 78.10    | 0.400        | 1.28          | 0.943          | 3.01            |           | 2        | WG1314190 |
| Benzyl Chloride                | 100-44-7   | 127      | 0.400        | 2.08          | ND             | ND              |           | 2        | WG1314190 |
| Bromodichloromethane           | 75-27-4    | 164      | 0.400        | 2.68          | ND             | ND              |           | 2        | WG1314190 |
| Bromoform                      | 75-25-2    | 253      | 1.20         | 12.4          | ND             | ND              |           | 2        | WG1314190 |
| Bromomethane                   | 74-83-9    | 94.90    | 0.400        | 1.55          | ND             | ND              |           | 2        | WG1314190 |
| 1,3-Butadiene                  | 106-99-0   | 54.10    | 4.00         | 8.85          | ND             | ND              |           | 2        | WG1314190 |
| Carbon disulfide               | 75-15-0    | 76.10    | 0.400        | 1.24          | 3.25           | 10.1            |           | 2        | WG1314190 |
| Carbon tetrachloride           | 56-23-5    | 154      | 0.400        | 2.52          | ND             | ND              |           | 2        | WG1314190 |
| Chlorobenzene                  | 108-90-7   | 113      | 0.400        | 1.85          | 1.34           | 6.20            |           | 2        | WG1314190 |
| Chloroethane                   | 75-00-3    | 64.50    | 0.400        | 1.06          | ND             | ND              |           | 2        | WG1314190 |
| Chloroform                     | 67-66-3    | 119      | 0.400        | 1.95          | ND             | ND              |           | 2        | WG1314190 |
| Chloromethane                  | 74-87-3    | 50.50    | 0.400        | 0.826         | ND             | ND              |           | 2        | WG1314190 |
| 2-Chlorotoluene                | 95-49-8    | 126      | 0.400        | 2.06          | ND             | ND              |           | 2        | WG1314190 |
| Cyclohexane                    | 110-82-7   | 84.20    | 0.400        | 1.38          | ND             | ND              |           | 2        | WG1314190 |
| Dibromochloromethane           | 124-48-1   | 208      | 0.400        | 3.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dibromoethane              | 106-93-4   | 188      | 0.400        | 3.08          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichlorobenzene            | 95-50-1    | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,3-Dichlorobenzene            | 541-73-1   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,4-Dichlorobenzene            | 106-46-7   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichloroethane             | 107-06-2   | 99       | 0.400        | 1.62          | ND             | ND              |           | 2        | WG1314190 |
| 1,1-Dichloroethane             | 75-34-3    | 98       | 0.400        | 1.60          | ND             | ND              |           | 2        | WG1314190 |
| 1,1-Dichloroethene             | 75-35-4    | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichloropropane            | 78-87-5    | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1314190 |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314190 |
| trans-1,3-Dichloropropene      | 10061-02-6 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314190 |
| 1,4-Dioxane                    | 123-91-1   | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314190 |
| Ethanol                        | 64-17-5    | 46.10    | 1.26         | 2.38          | 9.93           | 18.7            |           | 2        | WG1314190 |
| Ethylbenzene                   | 100-41-4   | 106      | 0.400        | 1.73          | 1.90           | 8.25            |           | 2        | WG1314190 |
| 4-Ethyltoluene                 | 622-96-8   | 120      | 0.400        | 1.96          | 0.638          | 3.13            |           | 2        | WG1314190 |
| Trichlorofluoromethane         | 75-69-4    | 137.40   | 0.400        | 2.25          | 1.84           | 10.3            |           | 2        | WG1314190 |
| Dichlorodifluoromethane        | 75-71-8    | 120.92   | 0.400        | 1.98          | 0.498          | 2.46            |           | 2        | WG1314190 |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.40   | 0.400        | 3.07          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichlorotetrafluoroethane  | 76-14-2    | 171      | 0.400        | 2.80          | ND             | ND              |           | 2        | WG1314190 |
| Heptane                        | 142-82-5   | 100      | 0.400        | 1.64          | 0.475          | 1.94            |           | 2        | WG1314190 |
| Hexachloro-1,3-butadiene       | 87-68-3    | 261      | 1.26         | 13.5          | ND             | ND              |           | 2        | WG1314190 |
| n-Hexane                       | 110-54-3   | 86.20    | 0.400        | 1.41          | 0.515          | 1.82            |           | 2        | WG1314190 |
| Isopropylbenzene               | 98-82-8    | 120.20   | 0.400        | 1.97          | ND             | ND              |           | 2        | WG1314190 |
| Methylene Chloride             | 75-09-2    | 84.90    | 0.400        | 1.39          | 0.487          | 1.69            | B         | 2        | WG1314190 |
| Methyl Butyl Ketone            | 591-78-6   | 100      | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314190 |
| 2-Butanone (MEK)               | 78-93-3    | 72.10    | 2.50         | 7.37          | ND             | ND              |           | 2        | WG1314190 |
| 4-Methyl-2-pentanone (MIBK)    | 108-10-1   | 100.10   | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314190 |
| Methyl methacrylate            | 80-62-6    | 100.12   | 0.400        | 1.64          | 0.430          | 1.76            |           | 2        | WG1314190 |
| MTBE                           | 1634-04-4  | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314190 |
| Naphthalene                    | 91-20-3    | 128      | 1.26         | 6.60          | ND             | ND              |           | 2        | WG1314190 |
| 2-Propanol                     | 67-63-0    | 60.10    | 2.50         | 6.15          | ND             | ND              |           | 2        | WG1314190 |
| Propene                        | 115-07-1   | 42.10    | 0.800        | 1.38          | ND             | ND              |           | 2        | WG1314190 |
| Styrene                        | 100-42-5   | 104      | 0.400        | 1.70          | 1.56           | 6.63            |           | 2        | WG1314190 |
| 1,1,2,2-Tetrachloroethane      | 79-34-5    | 168      | 0.400        | 2.75          | ND             | ND              |           | 2        | WG1314190 |
| Tetrachloroethylene            | 127-18-4   | 166      | 0.400        | 2.72          | 0.785          | 5.33            |           | 2        | WG1314190 |
| Tetrahydrofuran                | 109-99-9   | 72.10    | 0.400        | 1.18          | 0.818          | 2.41            |           | 2        | WG1314190 |
| Toluene                        | 108-88-3   | 92.10    | 0.400        | 1.51          | 5.31           | 20.0            |           | 2        | WG1314190 |
| 1,2,4-Trichlorobenzene         | 120-82-1   | 181      | 1.26         | 9.33          | ND             | ND              |           | 2        | WG1314190 |

1 Cp

2 Tc

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## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                    | CAS #     | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch                     |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|---------------------------|
| 1,1,1-Trichloroethane      | 71-55-6   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| 1,1,2-Trichloroethane      | 79-00-5   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Trichloroethylene          | 79-01-6   | 131      | 0.400        | 2.14          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| 1,2,4-Trimethylbenzene     | 95-63-6   | 120      | 0.400        | 1.96          | 2.43           | 11.9            |           | 2        | <a href="#">WG1314190</a> |
| 1,3,5-Trimethylbenzene     | 108-67-8  | 120      | 0.400        | 1.96          | 0.652          | 3.20            |           | 2        | <a href="#">WG1314190</a> |
| 2,2,4-Trimethylpentane     | 540-84-1  | 114.22   | 0.400        | 1.87          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Vinyl chloride             | 75-01-4   | 62.50    | 0.400        | 1.02          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Vinyl Bromide              | 593-60-2  | 106.95   | 0.400        | 1.75          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Vinyl acetate              | 108-05-4  | 86.10    | 0.400        | 1.41          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| m&p-Xylene                 | 1330-20-7 | 106      | 0.800        | 3.47          | 8.46           | 36.7            |           | 2        | <a href="#">WG1314190</a> |
| o-Xylene                   | 95-47-6   | 106      | 0.400        | 1.73          | 3.20           | 13.9            |           | 2        | <a href="#">WG1314190</a> |
| TPH (GC/MS) Low Fraction   | 8006-61-9 | 101      | 100          | 413           | 266            | 1100            | <u>B</u>  | 2        | <a href="#">WG1314190</a> |
| 1,1-Difluoroethane         | 75-37-6   | 66.05    | 0.400        | 1.08          | 1.62           | 4.38            |           | 2        | <a href="#">WG1314190</a> |
| 1,2,3-Trimethylbenzene     | 526-73-8  | 120.10   | 0.400        | 1.96          | 0.561          | 2.75            |           | 2        | <a href="#">WG1314190</a> |
| Chlorodifluoromethane      | 75-45-6   | 86.50    | 0.400        | 1.42          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Dicyclopentadiene          | 77-73-6   | 132.20   | 0.400        | 2.16          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Ethyl acetate              | 141-78-6  | 88       | 0.400        | 1.44          | 0.473          | 1.70            |           | 2        | <a href="#">WG1314190</a> |
| Methyl Cyclohexane         | 108-87-2  | 98.1860  | 0.400        | 1.61          | 0.546          | 2.19            |           | 2        | <a href="#">WG1314190</a> |
| Tert-Amyl Ethyl Ether      | 919-94-8  | 116.20   | 0.400        | 1.90          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 98.1           |                 |           |          | <a href="#">WG1314190</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                        | CAS #      | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch     |
|--------------------------------|------------|----------|--------------|---------------|----------------|-----------------|-----------|----------|-----------|
| Acetone                        | 67-64-1    | 58.10    | 2.50         | 5.94          | 3.84           | 9.12            |           | 2        | WG1314190 |
| Allyl chloride                 | 107-05-1   | 76.53    | 0.400        | 1.25          | ND             | ND              |           | 2        | WG1314190 |
| Benzene                        | 71-43-2    | 78.10    | 0.400        | 1.28          | 2.01           | 6.41            |           | 2        | WG1314190 |
| Benzyl Chloride                | 100-44-7   | 127      | 0.400        | 2.08          | ND             | ND              |           | 2        | WG1314190 |
| Bromodichloromethane           | 75-27-4    | 164      | 0.400        | 2.68          | ND             | ND              |           | 2        | WG1314190 |
| Bromoform                      | 75-25-2    | 253      | 1.20         | 12.4          | ND             | ND              |           | 2        | WG1314190 |
| Bromomethane                   | 74-83-9    | 94.90    | 0.400        | 1.55          | ND             | ND              |           | 2        | WG1314190 |
| 1,3-Butadiene                  | 106-99-0   | 54.10    | 4.00         | 8.85          | ND             | ND              |           | 2        | WG1314190 |
| Carbon disulfide               | 75-15-0    | 76.10    | 0.400        | 1.24          | 0.830          | 2.58            |           | 2        | WG1314190 |
| Carbon tetrachloride           | 56-23-5    | 154      | 0.400        | 2.52          | ND             | ND              |           | 2        | WG1314190 |
| Chlorobenzene                  | 108-90-7   | 113      | 0.400        | 1.85          | 2.00           | 9.23            |           | 2        | WG1314190 |
| Chloroethane                   | 75-00-3    | 64.50    | 0.400        | 1.06          | ND             | ND              |           | 2        | WG1314190 |
| Chloroform                     | 67-66-3    | 119      | 0.400        | 1.95          | ND             | ND              |           | 2        | WG1314190 |
| Chloromethane                  | 74-87-3    | 50.50    | 0.400        | 0.826         | ND             | ND              |           | 2        | WG1314190 |
| 2-Chlorotoluene                | 95-49-8    | 126      | 0.400        | 2.06          | ND             | ND              |           | 2        | WG1314190 |
| Cyclohexane                    | 110-82-7   | 84.20    | 0.400        | 1.38          | ND             | ND              |           | 2        | WG1314190 |
| Dibromochloromethane           | 124-48-1   | 208      | 0.400        | 3.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dibromoethane              | 106-93-4   | 188      | 0.400        | 3.08          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichlorobenzene            | 95-50-1    | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,3-Dichlorobenzene            | 541-73-1   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,4-Dichlorobenzene            | 106-46-7   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichloroethane             | 107-06-2   | 99       | 0.400        | 1.62          | ND             | ND              |           | 2        | WG1314190 |
| 1,1-Dichloroethane             | 75-34-3    | 98       | 0.400        | 1.60          | ND             | ND              |           | 2        | WG1314190 |
| 1,1-Dichloroethene             | 75-35-4    | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichloropropane            | 78-87-5    | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1314190 |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314190 |
| trans-1,3-Dichloropropene      | 10061-02-6 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314190 |
| 1,4-Dioxane                    | 123-91-1   | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314190 |
| Ethanol                        | 64-17-5    | 46.10    | 1.26         | 2.38          | 18.0           | 33.9            |           | 2        | WG1314190 |
| Ethylbenzene                   | 100-41-4   | 106      | 0.400        | 1.73          | 1.57           | 6.79            |           | 2        | WG1314190 |
| 4-Ethyltoluene                 | 622-96-8   | 120      | 0.400        | 1.96          | 0.636          | 3.12            |           | 2        | WG1314190 |
| Trichlorofluoromethane         | 75-69-4    | 137.40   | 0.400        | 2.25          | 13.5           | 75.7            |           | 2        | WG1314190 |
| Dichlorodifluoromethane        | 75-71-8    | 120.92   | 0.400        | 1.98          | 0.482          | 2.38            |           | 2        | WG1314190 |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.40   | 0.400        | 3.07          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichlorotetrafluoroethane  | 76-14-2    | 171      | 0.400        | 2.80          | ND             | ND              |           | 2        | WG1314190 |
| Heptane                        | 142-82-5   | 100      | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1314190 |
| Hexachloro-1,3-butadiene       | 87-68-3    | 261      | 1.26         | 13.5          | ND             | ND              |           | 2        | WG1314190 |
| n-Hexane                       | 110-54-3   | 86.20    | 0.400        | 1.41          | ND             | ND              |           | 2        | WG1314190 |
| Isopropylbenzene               | 98-82-8    | 120.20   | 0.400        | 1.97          | ND             | ND              |           | 2        | WG1314190 |
| Methylene Chloride             | 75-09-2    | 84.90    | 0.400        | 1.39          | ND             | ND              |           | 2        | WG1314190 |
| Methyl Butyl Ketone            | 591-78-6   | 100      | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314190 |
| 2-Butanone (MEK)               | 78-93-3    | 72.10    | 2.50         | 7.37          | ND             | ND              |           | 2        | WG1314190 |
| 4-Methyl-2-pentanone (MIBK)    | 108-10-1   | 100.10   | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314190 |
| Methyl methacrylate            | 80-62-6    | 100.12   | 0.400        | 1.64          | 0.415          | 1.70            |           | 2        | WG1314190 |
| MTBE                           | 1634-04-4  | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314190 |
| Naphthalene                    | 91-20-3    | 128      | 1.26         | 6.60          | ND             | ND              |           | 2        | WG1314190 |
| 2-Propanol                     | 67-63-0    | 60.10    | 2.50         | 6.15          | ND             | ND              |           | 2        | WG1314190 |
| Propene                        | 115-07-1   | 42.10    | 0.800        | 1.38          | ND             | ND              |           | 2        | WG1314190 |
| Styrene                        | 100-42-5   | 104      | 0.400        | 1.70          | 1.19           | 5.05            |           | 2        | WG1314190 |
| 1,1,2,2-Tetrachloroethane      | 79-34-5    | 168      | 0.400        | 2.75          | ND             | ND              |           | 2        | WG1314190 |
| Tetrachloroethylene            | 127-18-4   | 166      | 0.400        | 2.72          | 7.35           | 49.9            |           | 2        | WG1314190 |
| Tetrahydrofuran                | 109-99-9   | 72.10    | 0.400        | 1.18          | 2.08           | 6.13            |           | 2        | WG1314190 |
| Toluene                        | 108-88-3   | 92.10    | 0.400        | 1.51          | 5.16           | 19.4            |           | 2        | WG1314190 |
| 1,2,4-Trichlorobenzene         | 120-82-1   | 181      | 1.26         | 9.33          | ND             | ND              |           | 2        | WG1314190 |

1 Cp

2 Tc

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## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                    | CAS #     | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch                     |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|---------------------------|
| 1,1,1-Trichloroethane      | 71-55-6   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| 1,1,2-Trichloroethane      | 79-00-5   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Trichloroethylene          | 79-01-6   | 131      | 0.400        | 2.14          | 0.415          | 2.22            |           | 2        | <a href="#">WG1314190</a> |
| 1,2,4-Trimethylbenzene     | 95-63-6   | 120      | 0.400        | 1.96          | 2.36           | 11.6            |           | 2        | <a href="#">WG1314190</a> |
| 1,3,5-Trimethylbenzene     | 108-67-8  | 120      | 0.400        | 1.96          | 0.623          | 3.06            |           | 2        | <a href="#">WG1314190</a> |
| 2,2,4-Trimethylpentane     | 540-84-1  | 114.22   | 0.400        | 1.87          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Vinyl chloride             | 75-01-4   | 62.50    | 0.400        | 1.02          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Vinyl Bromide              | 593-60-2  | 106.95   | 0.400        | 1.75          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Vinyl acetate              | 108-05-4  | 86.10    | 0.400        | 1.41          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| m&p-Xylene                 | 1330-20-7 | 106      | 0.800        | 3.47          | 6.68           | 29.0            |           | 2        | <a href="#">WG1314190</a> |
| o-Xylene                   | 95-47-6   | 106      | 0.400        | 1.73          | 2.38           | 10.3            |           | 2        | <a href="#">WG1314190</a> |
| TPH (GC/MS) Low Fraction   | 8006-61-9 | 101      | 100          | 413           | 191            | 787             | <u>B</u>  | 2        | <a href="#">WG1314190</a> |
| 1,1-Difluoroethane         | 75-37-6   | 66.05    | 0.400        | 1.08          | 1.43           | 3.87            |           | 2        | <a href="#">WG1314190</a> |
| 1,2,3-Trimethylbenzene     | 526-73-8  | 120.10   | 0.400        | 1.96          | 0.548          | 2.69            |           | 2        | <a href="#">WG1314190</a> |
| Chlorodifluoromethane      | 75-45-6   | 86.50    | 0.400        | 1.42          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Dicyclopentadiene          | 77-73-6   | 132.20   | 0.400        | 2.16          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Ethyl acetate              | 141-78-6  | 88       | 0.400        | 1.44          | 0.411          | 1.48            |           | 2        | <a href="#">WG1314190</a> |
| Methyl Cyclohexane         | 108-87-2  | 98.1860  | 0.400        | 1.61          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Tert-Amyl Ethyl Ether      | 919-94-8  | 116.20   | 0.400        | 1.90          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 98.9           |                 |           |          | <a href="#">WG1314190</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





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## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                        | CAS #      | Mol. Wt. | RDL1  | RDL2  | Result | Result | Qualifier | Dilution | Batch     |
|--------------------------------|------------|----------|-------|-------|--------|--------|-----------|----------|-----------|
|                                |            |          | ppbv  | ug/m3 | ppbv   | ug/m3  |           |          |           |
| Acetone                        | 67-64-1    | 58.10    | 2.50  | 5.94  | 19.7   | 46.7   |           | 2        | WG1314190 |
| Allyl chloride                 | 107-05-1   | 76.53    | 0.400 | 1.25  | ND     | ND     |           | 2        | WG1314190 |
| Benzene                        | 71-43-2    | 78.10    | 0.400 | 1.28  | ND     | ND     |           | 2        | WG1314190 |
| Benzyl Chloride                | 100-44-7   | 127      | 0.400 | 2.08  | ND     | ND     |           | 2        | WG1314190 |
| Bromodichloromethane           | 75-27-4    | 164      | 0.400 | 2.68  | ND     | ND     |           | 2        | WG1314190 |
| Bromoform                      | 75-25-2    | 253      | 1.20  | 12.4  | ND     | ND     |           | 2        | WG1314190 |
| Bromomethane                   | 74-83-9    | 94.90    | 0.400 | 1.55  | ND     | ND     |           | 2        | WG1314190 |
| 1,3-Butadiene                  | 106-99-0   | 54.10    | 4.00  | 8.85  | ND     | ND     |           | 2        | WG1314190 |
| Carbon disulfide               | 75-15-0    | 76.10    | 0.400 | 1.24  | 1.78   | 5.55   |           | 2        | WG1314190 |
| Carbon tetrachloride           | 56-23-5    | 154      | 0.400 | 2.52  | ND     | ND     |           | 2        | WG1314190 |
| Chlorobenzene                  | 108-90-7   | 113      | 0.400 | 1.85  | ND     | ND     |           | 2        | WG1314190 |
| Chloroethane                   | 75-00-3    | 64.50    | 0.400 | 1.06  | ND     | ND     |           | 2        | WG1314190 |
| Chloroform                     | 67-66-3    | 119      | 0.400 | 1.95  | ND     | ND     |           | 2        | WG1314190 |
| Chloromethane                  | 74-87-3    | 50.50    | 0.400 | 0.826 | 0.504  | 1.04   |           | 2        | WG1314190 |
| 2-Chlorotoluene                | 95-49-8    | 126      | 0.400 | 2.06  | ND     | ND     |           | 2        | WG1314190 |
| Cyclohexane                    | 110-82-7   | 84.20    | 0.400 | 1.38  | ND     | ND     |           | 2        | WG1314190 |
| Dibromochloromethane           | 124-48-1   | 208      | 0.400 | 3.40  | ND     | ND     |           | 2        | WG1314190 |
| 1,2-Dibromoethane              | 106-93-4   | 188      | 0.400 | 3.08  | ND     | ND     |           | 2        | WG1314190 |
| 1,2-Dichlorobenzene            | 95-50-1    | 147      | 0.400 | 2.40  | ND     | ND     |           | 2        | WG1314190 |
| 1,3-Dichlorobenzene            | 541-73-1   | 147      | 0.400 | 2.40  | ND     | ND     |           | 2        | WG1314190 |
| 1,4-Dichlorobenzene            | 106-46-7   | 147      | 0.400 | 2.40  | ND     | ND     |           | 2        | WG1314190 |
| 1,2-Dichloroethane             | 107-06-2   | 99       | 0.400 | 1.62  | ND     | ND     |           | 2        | WG1314190 |
| 1,1-Dichloroethane             | 75-34-3    | 98       | 0.400 | 1.60  | ND     | ND     |           | 2        | WG1314190 |
| 1,1-Dichloroethene             | 75-35-4    | 96.90    | 0.400 | 1.59  | ND     | ND     |           | 2        | WG1314190 |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.90    | 0.400 | 1.59  | ND     | ND     |           | 2        | WG1314190 |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.90    | 0.400 | 1.59  | ND     | ND     |           | 2        | WG1314190 |
| 1,2-Dichloropropane            | 78-87-5    | 113      | 0.400 | 1.85  | ND     | ND     |           | 2        | WG1314190 |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111      | 0.400 | 1.82  | ND     | ND     |           | 2        | WG1314190 |
| trans-1,3-Dichloropropene      | 10061-02-6 | 111      | 0.400 | 1.82  | ND     | ND     |           | 2        | WG1314190 |
| 1,4-Dioxane                    | 123-91-1   | 88.10    | 0.400 | 1.44  | 1.31   | 4.73   | B         | 2        | WG1314190 |
| Ethanol                        | 64-17-5    | 46.10    | 1.26  | 2.38  | 7.50   | 14.1   |           | 2        | WG1314190 |
| Ethylbenzene                   | 100-41-4   | 106      | 0.400 | 1.73  | 0.811  | 3.51   |           | 2        | WG1314190 |
| 4-Ethyltoluene                 | 622-96-8   | 120      | 0.400 | 1.96  | 0.482  | 2.36   |           | 2        | WG1314190 |
| Trichlorofluoromethane         | 75-69-4    | 137.40   | 5.00  | 28.1  | 167    | 941    |           | 25       | WG1314791 |
| Dichlorodifluoromethane        | 75-71-8    | 120.92   | 0.400 | 1.98  | 0.998  | 4.93   |           | 2        | WG1314190 |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.40   | 0.400 | 3.07  | ND     | ND     |           | 2        | WG1314190 |
| 1,2-Dichlorotetrafluoroethane  | 76-14-2    | 171      | 0.400 | 2.80  | ND     | ND     |           | 2        | WG1314190 |
| Heptane                        | 142-82-5   | 100      | 0.400 | 1.64  | ND     | ND     |           | 2        | WG1314190 |
| Hexachloro-1,3-butadiene       | 87-68-3    | 261      | 1.26  | 13.5  | ND     | ND     |           | 2        | WG1314190 |
| n-Hexane                       | 110-54-3   | 86.20    | 0.400 | 1.41  | ND     | ND     |           | 2        | WG1314190 |
| Isopropylbenzene               | 98-82-8    | 120.20   | 0.400 | 1.97  | ND     | ND     |           | 2        | WG1314190 |
| Methylene Chloride             | 75-09-2    | 84.90    | 0.400 | 1.39  | 0.483  | 1.68   | B         | 2        | WG1314190 |
| Methyl Butyl Ketone            | 591-78-6   | 100      | 2.50  | 10.2  | ND     | ND     |           | 2        | WG1314190 |
| 2-Butanone (MEK)               | 78-93-3    | 72.10    | 2.50  | 7.37  | ND     | ND     |           | 2        | WG1314190 |
| 4-Methyl-2-pentanone (MIBK)    | 108-10-1   | 100.10   | 2.50  | 10.2  | ND     | ND     |           | 2        | WG1314190 |
| Methyl methacrylate            | 80-62-6    | 100.12   | 0.400 | 1.64  | ND     | ND     |           | 2        | WG1314190 |
| MTBE                           | 1634-04-4  | 88.10    | 0.400 | 1.44  | ND     | ND     |           | 2        | WG1314190 |
| Naphthalene                    | 91-20-3    | 128      | 1.26  | 6.60  | ND     | ND     |           | 2        | WG1314190 |
| 2-Propanol                     | 67-63-0    | 60.10    | 2.50  | 6.15  | 7.04   | 17.3   |           | 2        | WG1314190 |
| Propene                        | 115-07-1   | 42.10    | 0.800 | 1.38  | ND     | ND     |           | 2        | WG1314190 |
| Styrene                        | 100-42-5   | 104      | 0.400 | 1.70  | ND     | ND     |           | 2        | WG1314190 |
| 1,1,2,2-Tetrachloroethane      | 79-34-5    | 168      | 0.400 | 2.75  | ND     | ND     |           | 2        | WG1314190 |
| Tetrachloroethylene            | 127-18-4   | 166      | 0.400 | 2.72  | 2.09   | 14.2   |           | 2        | WG1314190 |
| Tetrahydrofuran                | 109-99-9   | 72.10    | 0.400 | 1.18  | 0.800  | 2.36   |           | 2        | WG1314190 |
| Toluene                        | 108-88-3   | 92.10    | 0.400 | 1.51  | 2.45   | 9.22   |           | 2        | WG1314190 |
| 1,2,4-Trichlorobenzene         | 120-82-1   | 181      | 1.26  | 9.33  | ND     | ND     |           | 2        | WG1314190 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

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9 Sc

ACCOUNT:

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## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                    | CAS #     | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch     |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|-----------|
| 1,1,1-Trichloroethane      | 71-55-6   | 133      | 0.400        | 2.18          | 0.597          | 3.25            |           | 2        | WG1314190 |
| 1,1,2-Trichloroethane      | 79-00-5   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | WG1314190 |
| Trichloroethylene          | 79-01-6   | 131      | 0.400        | 2.14          | 35.9           | 192             |           | 2        | WG1314190 |
| 1,2,4-Trimethylbenzene     | 95-63-6   | 120      | 0.400        | 1.96          | 2.35           | 11.5            |           | 2        | WG1314190 |
| 1,3,5-Trimethylbenzene     | 108-67-8  | 120      | 0.400        | 1.96          | 0.602          | 2.95            |           | 2        | WG1314190 |
| 2,2,4-Trimethylpentane     | 540-84-1  | 114.22   | 0.400        | 1.87          | ND             | ND              |           | 2        | WG1314190 |
| Vinyl chloride             | 75-01-4   | 62.50    | 0.400        | 1.02          | ND             | ND              |           | 2        | WG1314190 |
| Vinyl Bromide              | 593-60-2  | 106.95   | 0.400        | 1.75          | ND             | ND              |           | 2        | WG1314190 |
| Vinyl acetate              | 108-05-4  | 86.10    | 0.400        | 1.41          | ND             | ND              |           | 2        | WG1314190 |
| m&p-Xylene                 | 1330-20-7 | 106      | 0.800        | 3.47          | 3.70           | 16.0            |           | 2        | WG1314190 |
| o-Xylene                   | 95-47-6   | 106      | 0.400        | 1.73          | 1.48           | 6.40            |           | 2        | WG1314190 |
| TPH (GC/MS) Low Fraction   | 8006-61-9 | 101      | 100          | 413           | 170            | 704             | B         | 2        | WG1314190 |
| 1,1-Difluoroethane         | 75-37-6   | 66.05    | 0.400        | 1.08          | 1.46           | 3.93            |           | 2        | WG1314190 |
| 1,2,3-Trimethylbenzene     | 526-73-8  | 120.10   | 0.400        | 1.96          | 0.646          | 3.18            |           | 2        | WG1314190 |
| Chlorodifluoromethane      | 75-45-6   | 86.50    | 0.400        | 1.42          | ND             | ND              |           | 2        | WG1314190 |
| Dicyclopentadiene          | 77-73-6   | 132.20   | 0.400        | 2.16          | ND             | ND              |           | 2        | WG1314190 |
| Ethyl acetate              | 141-78-6  | 88       | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314190 |
| Methyl Cyclohexane         | 108-87-2  | 98.1860  | 0.400        | 1.61          | ND             | ND              |           | 2        | WG1314190 |
| Tert-Amyl Ethyl Ether      | 919-94-8  | 116.20   | 0.400        | 1.90          | ND             | ND              |           | 2        | WG1314190 |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 100            |                 |           |          | WG1314190 |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 102            |                 |           |          | WG1314791 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                        | CAS #      | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch     |
|--------------------------------|------------|----------|--------------|---------------|----------------|-----------------|-----------|----------|-----------|
| Acetone                        | 67-64-1    | 58.10    | 2.50         | 5.94          | 7.89           | 18.7            |           | 2        | WG1314190 |
| Allyl chloride                 | 107-05-1   | 76.53    | 0.400        | 1.25          | ND             | ND              |           | 2        | WG1314190 |
| Benzene                        | 71-43-2    | 78.10    | 0.400        | 1.28          | ND             | ND              |           | 2        | WG1314190 |
| Benzyl Chloride                | 100-44-7   | 127      | 0.400        | 2.08          | ND             | ND              |           | 2        | WG1314190 |
| Bromodichloromethane           | 75-27-4    | 164      | 0.400        | 2.68          | ND             | ND              |           | 2        | WG1314190 |
| Bromoform                      | 75-25-2    | 253      | 1.20         | 12.4          | ND             | ND              |           | 2        | WG1314190 |
| Bromomethane                   | 74-83-9    | 94.90    | 0.400        | 1.55          | ND             | ND              |           | 2        | WG1314190 |
| 1,3-Butadiene                  | 106-99-0   | 54.10    | 4.00         | 8.85          | ND             | ND              |           | 2        | WG1314190 |
| Carbon disulfide               | 75-15-0    | 76.10    | 0.400        | 1.24          | 0.533          | 1.66            |           | 2        | WG1314190 |
| Carbon tetrachloride           | 56-23-5    | 154      | 0.400        | 2.52          | ND             | ND              |           | 2        | WG1314190 |
| Chlorobenzene                  | 108-90-7   | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1314190 |
| Chloroethane                   | 75-00-3    | 64.50    | 0.400        | 1.06          | ND             | ND              |           | 2        | WG1314190 |
| Chloroform                     | 67-66-3    | 119      | 0.400        | 1.95          | 1.89           | 9.20            |           | 2        | WG1314190 |
| Chloromethane                  | 74-87-3    | 50.50    | 0.400        | 0.826         | ND             | ND              |           | 2        | WG1314190 |
| 2-Chlorotoluene                | 95-49-8    | 126      | 0.400        | 2.06          | ND             | ND              |           | 2        | WG1314190 |
| Cyclohexane                    | 110-82-7   | 84.20    | 0.400        | 1.38          | ND             | ND              |           | 2        | WG1314190 |
| Dibromochloromethane           | 124-48-1   | 208      | 0.400        | 3.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dibromoethane              | 106-93-4   | 188      | 0.400        | 3.08          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichlorobenzene            | 95-50-1    | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,3-Dichlorobenzene            | 541-73-1   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,4-Dichlorobenzene            | 106-46-7   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichloroethane             | 107-06-2   | 99       | 0.400        | 1.62          | ND             | ND              |           | 2        | WG1314190 |
| 1,1-Dichloroethane             | 75-34-3    | 98       | 0.400        | 1.60          | ND             | ND              |           | 2        | WG1314190 |
| 1,1-Dichloroethene             | 75-35-4    | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichloropropane            | 78-87-5    | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1314190 |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314190 |
| trans-1,3-Dichloropropene      | 10061-02-6 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314190 |
| 1,4-Dioxane                    | 123-91-1   | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314190 |
| Ethanol                        | 64-17-5    | 46.10    | 1.26         | 2.38          | ND             | ND              |           | 2        | WG1314190 |
| Ethylbenzene                   | 100-41-4   | 106      | 0.400        | 1.73          | 1.20           | 5.20            |           | 2        | WG1314190 |
| 4-Ethyltoluene                 | 622-96-8   | 120      | 0.400        | 1.96          | 0.727          | 3.57            |           | 2        | WG1314190 |
| Trichlorofluoromethane         | 75-69-4    | 137.40   | 40.0         | 225           | 919            | 5160            |           | 200      | WG1314791 |
| Dichlorodifluoromethane        | 75-71-8    | 120.92   | 0.400        | 1.98          | 0.815          | 4.03            |           | 2        | WG1314190 |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.40   | 0.400        | 3.07          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichlorotetrafluoroethane  | 76-14-2    | 171      | 0.400        | 2.80          | ND             | ND              |           | 2        | WG1314190 |
| Heptane                        | 142-82-5   | 100      | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1314190 |
| Hexachloro-1,3-butadiene       | 87-68-3    | 261      | 1.26         | 13.5          | ND             | ND              |           | 2        | WG1314190 |
| n-Hexane                       | 110-54-3   | 86.20    | 0.400        | 1.41          | 0.532          | 1.87            |           | 2        | WG1314190 |
| Isopropylbenzene               | 98-82-8    | 120.20   | 0.400        | 1.97          | ND             | ND              |           | 2        | WG1314190 |
| Methylene Chloride             | 75-09-2    | 84.90    | 0.400        | 1.39          | 1.55           | 5.38            |           | 2        | WG1314190 |
| Methyl Butyl Ketone            | 591-78-6   | 100      | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314190 |
| 2-Butanone (MEK)               | 78-93-3    | 72.10    | 2.50         | 7.37          | ND             | ND              |           | 2        | WG1314190 |
| 4-Methyl-2-pentanone (MIBK)    | 108-10-1   | 100.10   | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314190 |
| Methyl methacrylate            | 80-62-6    | 100.12   | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1314190 |
| MTBE                           | 1634-04-4  | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314190 |
| Naphthalene                    | 91-20-3    | 128      | 1.26         | 6.60          | ND             | ND              |           | 2        | WG1314190 |
| 2-Propanol                     | 67-63-0    | 60.10    | 2.50         | 6.15          | ND             | ND              |           | 2        | WG1314190 |
| Propene                        | 115-07-1   | 42.10    | 0.800        | 1.38          | ND             | ND              |           | 2        | WG1314190 |
| Styrene                        | 100-42-5   | 104      | 0.400        | 1.70          | 0.450          | 1.91            |           | 2        | WG1314190 |
| 1,1,2,2-Tetrachloroethane      | 79-34-5    | 168      | 0.400        | 2.75          | ND             | ND              |           | 2        | WG1314190 |
| Tetrachloroethylene            | 127-18-4   | 166      | 0.400        | 2.72          | 2.82           | 19.2            |           | 2        | WG1314190 |
| Tetrahydrofuran                | 109-99-9   | 72.10    | 0.400        | 1.18          | ND             | ND              |           | 2        | WG1314190 |
| Toluene                        | 108-88-3   | 92.10    | 0.400        | 1.51          | 3.79           | 14.3            |           | 2        | WG1314190 |
| 1,2,4-Trichlorobenzene         | 120-82-1   | 181      | 1.26         | 9.33          | ND             | ND              |           | 2        | WG1314190 |

1 Cp

2 Tc

3 Ss

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## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                    | CAS #     | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch     |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|-----------|
| 1,1,1-Trichloroethane      | 71-55-6   | 133      | 0.400        | 2.18          | 3.10           | 16.9            |           | 2        | WG1314190 |
| 1,1,2-Trichloroethane      | 79-00-5   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | WG1314190 |
| Trichloroethylene          | 79-01-6   | 131      | 0.400        | 2.14          | 2.90           | 15.5            |           | 2        | WG1314190 |
| 1,2,4-Trimethylbenzene     | 95-63-6   | 120      | 0.400        | 1.96          | 2.89           | 14.2            |           | 2        | WG1314190 |
| 1,3,5-Trimethylbenzene     | 108-67-8  | 120      | 0.400        | 1.96          | 0.730          | 3.58            |           | 2        | WG1314190 |
| 2,2,4-Trimethylpentane     | 540-84-1  | 114.22   | 0.400        | 1.87          | ND             | ND              |           | 2        | WG1314190 |
| Vinyl chloride             | 75-01-4   | 62.50    | 0.400        | 1.02          | ND             | ND              |           | 2        | WG1314190 |
| Vinyl Bromide              | 593-60-2  | 106.95   | 0.400        | 1.75          | ND             | ND              |           | 2        | WG1314190 |
| Vinyl acetate              | 108-05-4  | 86.10    | 0.400        | 1.41          | ND             | ND              |           | 2        | WG1314190 |
| m&p-Xylene                 | 1330-20-7 | 106      | 0.800        | 3.47          | 5.66           | 24.5            |           | 2        | WG1314190 |
| o-Xylene                   | 95-47-6   | 106      | 0.400        | 1.73          | 2.18           | 9.47            |           | 2        | WG1314190 |
| TPH (GC/MS) Low Fraction   | 8006-61-9 | 101      | 100          | 413           | 281            | 1160            | B         | 2        | WG1314190 |
| 1,1-Difluoroethane         | 75-37-6   | 66.05    | 0.400        | 1.08          | 6.15           | 16.6            |           | 2        | WG1314190 |
| 1,2,3-Trimethylbenzene     | 526-73-8  | 120.10   | 0.400        | 1.96          | 0.643          | 3.16            |           | 2        | WG1314190 |
| Chlorodifluoromethane      | 75-45-6   | 86.50    | 0.400        | 1.42          | ND             | ND              |           | 2        | WG1314190 |
| Dicyclopentadiene          | 77-73-6   | 132.20   | 0.400        | 2.16          | ND             | ND              |           | 2        | WG1314190 |
| Ethyl acetate              | 141-78-6  | 88       | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314190 |
| Methyl Cyclohexane         | 108-87-2  | 98.1860  | 0.400        | 1.61          | ND             | ND              |           | 2        | WG1314190 |
| Tert-Amyl Ethyl Ether      | 919-94-8  | 116.20   | 0.400        | 1.90          | ND             | ND              |           | 2        | WG1314190 |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 96.8           |                 |           |          | WG1314190 |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 102            |                 |           |          | WG1314791 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                        | CAS #      | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch     |
|--------------------------------|------------|----------|--------------|---------------|----------------|-----------------|-----------|----------|-----------|
| Acetone                        | 67-64-1    | 58.10    | 2.50         | 5.94          | 42.9           | 102             |           | 2        | WG1314190 |
| Allyl chloride                 | 107-05-1   | 76.53    | 0.400        | 1.25          | ND             | ND              |           | 2        | WG1314190 |
| Benzene                        | 71-43-2    | 78.10    | 0.400        | 1.28          | 1.66           | 5.30            |           | 2        | WG1314190 |
| Benzyl Chloride                | 100-44-7   | 127      | 0.400        | 2.08          | ND             | ND              |           | 2        | WG1314190 |
| Bromodichloromethane           | 75-27-4    | 164      | 0.400        | 2.68          | ND             | ND              |           | 2        | WG1314190 |
| Bromoform                      | 75-25-2    | 253      | 1.20         | 12.4          | ND             | ND              |           | 2        | WG1314190 |
| Bromomethane                   | 74-83-9    | 94.90    | 0.400        | 1.55          | ND             | ND              |           | 2        | WG1314190 |
| 1,3-Butadiene                  | 106-99-0   | 54.10    | 4.00         | 8.85          | ND             | ND              |           | 2        | WG1314190 |
| Carbon disulfide               | 75-15-0    | 76.10    | 0.400        | 1.24          | 8.44           | 26.3            |           | 2        | WG1314190 |
| Carbon tetrachloride           | 56-23-5    | 154      | 0.400        | 2.52          | ND             | ND              |           | 2        | WG1314190 |
| Chlorobenzene                  | 108-90-7   | 113      | 0.400        | 1.85          | 1.09           | 5.02            |           | 2        | WG1314190 |
| Chloroethane                   | 75-00-3    | 64.50    | 0.400        | 1.06          | 7.12           | 18.8            |           | 2        | WG1314190 |
| Chloroform                     | 67-66-3    | 119      | 0.400        | 1.95          | ND             | ND              |           | 2        | WG1314190 |
| Chloromethane                  | 74-87-3    | 50.50    | 0.400        | 0.826         | 0.465          | 0.960           |           | 2        | WG1314190 |
| 2-Chlorotoluene                | 95-49-8    | 126      | 0.400        | 2.06          | ND             | ND              |           | 2        | WG1314190 |
| Cyclohexane                    | 110-82-7   | 84.20    | 0.400        | 1.38          | 1.93           | 6.65            |           | 2        | WG1314190 |
| Dibromochloromethane           | 124-48-1   | 208      | 0.400        | 3.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dibromoethane              | 106-93-4   | 188      | 0.400        | 3.08          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichlorobenzene            | 95-50-1    | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,3-Dichlorobenzene            | 541-73-1   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,4-Dichlorobenzene            | 106-46-7   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichloroethane             | 107-06-2   | 99       | 0.400        | 1.62          | ND             | ND              |           | 2        | WG1314190 |
| 1,1-Dichloroethane             | 75-34-3    | 98       | 0.400        | 1.60          | ND             | ND              |           | 2        | WG1314190 |
| 1,1-Dichloroethene             | 75-35-4    | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichloropropane            | 78-87-5    | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1314190 |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314190 |
| trans-1,3-Dichloropropene      | 10061-02-6 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314190 |
| 1,4-Dioxane                    | 123-91-1   | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314190 |
| Ethanol                        | 64-17-5    | 46.10    | 1.26         | 2.38          | 86.8           | 164             |           | 2        | WG1314190 |
| Ethylbenzene                   | 100-41-4   | 106      | 0.400        | 1.73          | 3.60           | 15.6            |           | 2        | WG1314190 |
| 4-Ethyltoluene                 | 622-96-8   | 120      | 0.400        | 1.96          | 0.806          | 3.96            |           | 2        | WG1314190 |
| Trichlorofluoromethane         | 75-69-4    | 137.40   | 0.400        | 2.25          | 5.02           | 28.2            |           | 2        | WG1314190 |
| Dichlorodifluoromethane        | 75-71-8    | 120.92   | 0.400        | 1.98          | 0.495          | 2.45            |           | 2        | WG1314190 |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.40   | 0.400        | 3.07          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichlorotetrafluoroethane  | 76-14-2    | 171      | 0.400        | 2.80          | ND             | ND              |           | 2        | WG1314190 |
| Heptane                        | 142-82-5   | 100      | 0.400        | 1.64          | 3.28           | 13.4            |           | 2        | WG1314190 |
| Hexachloro-1,3-butadiene       | 87-68-3    | 261      | 1.26         | 13.5          | ND             | ND              |           | 2        | WG1314190 |
| n-Hexane                       | 110-54-3   | 86.20    | 0.400        | 1.41          | 3.97           | 14.0            |           | 2        | WG1314190 |
| Isopropylbenzene               | 98-82-8    | 120.20   | 0.400        | 1.97          | ND             | ND              |           | 2        | WG1314190 |
| Methylene Chloride             | 75-09-2    | 84.90    | 0.400        | 1.39          | 2.81           | 9.76            |           | 2        | WG1314190 |
| Methyl Butyl Ketone            | 591-78-6   | 100      | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314190 |
| 2-Butanone (MEK)               | 78-93-3    | 72.10    | 2.50         | 7.37          | 22.6           | 66.7            |           | 2        | WG1314190 |
| 4-Methyl-2-pentanone (MIBK)    | 108-10-1   | 100.10   | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314190 |
| Methyl methacrylate            | 80-62-6    | 100.12   | 0.400        | 1.64          | 1.70           | 6.96            |           | 2        | WG1314190 |
| MTBE                           | 1634-04-4  | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314190 |
| Naphthalene                    | 91-20-3    | 128      | 1.26         | 6.60          | ND             | ND              |           | 2        | WG1314190 |
| 2-Propanol                     | 67-63-0    | 60.10    | 2.50         | 6.15          | 19.9           | 48.9            |           | 2        | WG1314190 |
| Propene                        | 115-07-1   | 42.10    | 0.800        | 1.38          | ND             | ND              |           | 2        | WG1314190 |
| Styrene                        | 100-42-5   | 104      | 0.400        | 1.70          | 4.03           | 17.1            |           | 2        | WG1314190 |
| 1,1,2,2-Tetrachloroethane      | 79-34-5    | 168      | 0.400        | 2.75          | ND             | ND              |           | 2        | WG1314190 |
| Tetrachloroethylene            | 127-18-4   | 166      | 0.400        | 2.72          | 2.83           | 19.2            |           | 2        | WG1314190 |
| Tetrahydrofuran                | 109-99-9   | 72.10    | 0.400        | 1.18          | 1.38           | 4.07            |           | 2        | WG1314190 |
| Toluene                        | 108-88-3   | 92.10    | 0.400        | 1.51          | 39.5           | 149             |           | 2        | WG1314190 |
| 1,2,4-Trichlorobenzene         | 120-82-1   | 181      | 1.26         | 9.33          | ND             | ND              |           | 2        | WG1314190 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

ACCOUNT:

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## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                    | CAS #     | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch     |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|-----------|
| 1,1,1-Trichloroethane      | 71-55-6   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | WG1314190 |
| 1,1,2-Trichloroethane      | 79-00-5   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | WG1314190 |
| Trichloroethylene          | 79-01-6   | 131      | 0.400        | 2.14          | ND             | ND              |           | 2        | WG1314190 |
| 1,2,4-Trimethylbenzene     | 95-63-6   | 120      | 0.400        | 1.96          | 3.32           | 16.3            |           | 2        | WG1314190 |
| 1,3,5-Trimethylbenzene     | 108-67-8  | 120      | 0.400        | 1.96          | 0.893          | 4.38            |           | 2        | WG1314190 |
| 2,2,4-Trimethylpentane     | 540-84-1  | 114.22   | 0.400        | 1.87          | 1.45           | 6.76            |           | 2        | WG1314190 |
| Vinyl chloride             | 75-01-4   | 62.50    | 0.400        | 1.02          | ND             | ND              |           | 2        | WG1314190 |
| Vinyl Bromide              | 593-60-2  | 106.95   | 0.400        | 1.75          | ND             | ND              |           | 2        | WG1314190 |
| Vinyl acetate              | 108-05-4  | 86.10    | 0.400        | 1.41          | ND             | ND              |           | 2        | WG1314190 |
| m&p-Xylene                 | 1330-20-7 | 106      | 0.800        | 3.47          | 11.5           | 49.7            |           | 2        | WG1314190 |
| o-Xylene                   | 95-47-6   | 106      | 0.400        | 1.73          | 4.43           | 19.2            |           | 2        | WG1314190 |
| TPH (GC/MS) Low Fraction   | 8006-61-9 | 101      | 100          | 413           | 316            | 1310            | B         | 2        | WG1314190 |
| 1,1-Difluoroethane         | 75-37-6   | 66.05    | 0.400        | 1.08          | 14.5           | 39.1            |           | 2        | WG1314190 |
| 1,2,3-Trimethylbenzene     | 526-73-8  | 120.10   | 0.400        | 1.96          | 0.750          | 3.68            |           | 2        | WG1314190 |
| Chlorodifluoromethane      | 75-45-6   | 86.50    | 0.400        | 1.42          | 0.632          | 2.24            |           | 2        | WG1314190 |
| Dicyclopentadiene          | 77-73-6   | 132.20   | 0.400        | 2.16          | ND             | ND              |           | 2        | WG1314190 |
| Ethyl acetate              | 141-78-6  | 88       | 0.400        | 1.44          | 8.13           | 29.3            |           | 2        | WG1314190 |
| Methyl Cyclohexane         | 108-87-2  | 98.1860  | 0.400        | 1.61          | 5.31           | 21.3            |           | 2        | WG1314190 |
| Tert-Amyl Ethyl Ether      | 919-94-8  | 116.20   | 0.400        | 1.90          | ND             | ND              |           | 2        | WG1314190 |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 96.6           |                 |           |          | WG1314190 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                        | CAS #      | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch     |
|--------------------------------|------------|----------|--------------|---------------|----------------|-----------------|-----------|----------|-----------|
| Acetone                        | 67-64-1    | 58.10    | 2.50         | 5.94          | 22.4           | 53.3            |           | 2        | WG1314190 |
| Allyl chloride                 | 107-05-1   | 76.53    | 0.400        | 1.25          | ND             | ND              |           | 2        | WG1314190 |
| Benzene                        | 71-43-2    | 78.10    | 0.400        | 1.28          | 2.31           | 7.37            |           | 2        | WG1314190 |
| Benzyl Chloride                | 100-44-7   | 127      | 0.400        | 2.08          | ND             | ND              |           | 2        | WG1314190 |
| Bromodichloromethane           | 75-27-4    | 164      | 0.400        | 2.68          | ND             | ND              |           | 2        | WG1314190 |
| Bromoform                      | 75-25-2    | 253      | 1.20         | 12.4          | ND             | ND              |           | 2        | WG1314190 |
| Bromomethane                   | 74-83-9    | 94.90    | 0.400        | 1.55          | ND             | ND              |           | 2        | WG1314190 |
| 1,3-Butadiene                  | 106-99-0   | 54.10    | 4.00         | 8.85          | ND             | ND              |           | 2        | WG1314190 |
| Carbon disulfide               | 75-15-0    | 76.10    | 0.400        | 1.24          | ND             | ND              |           | 2        | WG1314190 |
| Carbon tetrachloride           | 56-23-5    | 154      | 0.400        | 2.52          | ND             | ND              |           | 2        | WG1314190 |
| Chlorobenzene                  | 108-90-7   | 113      | 0.400        | 1.85          | 2.70           | 12.5            |           | 2        | WG1314190 |
| Chloroethane                   | 75-00-3    | 64.50    | 0.400        | 1.06          | ND             | ND              |           | 2        | WG1314190 |
| Chloroform                     | 67-66-3    | 119      | 0.400        | 1.95          | ND             | ND              |           | 2        | WG1314190 |
| Chloromethane                  | 74-87-3    | 50.50    | 0.400        | 0.826         | 0.609          | 1.26            |           | 2        | WG1314190 |
| 2-Chlorotoluene                | 95-49-8    | 126      | 0.400        | 2.06          | ND             | ND              |           | 2        | WG1314190 |
| Cyclohexane                    | 110-82-7   | 84.20    | 0.400        | 1.38          | ND             | ND              |           | 2        | WG1314190 |
| Dibromochloromethane           | 124-48-1   | 208      | 0.400        | 3.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dibromoethane              | 106-93-4   | 188      | 0.400        | 3.08          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichlorobenzene            | 95-50-1    | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,3-Dichlorobenzene            | 541-73-1   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,4-Dichlorobenzene            | 106-46-7   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichloroethane             | 107-06-2   | 99       | 0.400        | 1.62          | ND             | ND              |           | 2        | WG1314190 |
| 1,1-Dichloroethane             | 75-34-3    | 98       | 0.400        | 1.60          | ND             | ND              |           | 2        | WG1314190 |
| 1,1-Dichloroethene             | 75-35-4    | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichloropropane            | 78-87-5    | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1314190 |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314190 |
| trans-1,3-Dichloropropene      | 10061-02-6 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314190 |
| 1,4-Dioxane                    | 123-91-1   | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314190 |
| Ethanol                        | 64-17-5    | 46.10    | 1.26         | 2.38          | 19.5           | 36.7            |           | 2        | WG1314190 |
| Ethylbenzene                   | 100-41-4   | 106      | 0.400        | 1.73          | 1.76           | 7.62            |           | 2        | WG1314190 |
| 4-Ethyltoluene                 | 622-96-8   | 120      | 0.400        | 1.96          | 0.637          | 3.13            |           | 2        | WG1314190 |
| Trichlorofluoromethane         | 75-69-4    | 137.40   | 0.400        | 2.25          | 41.0           | 231             |           | 2        | WG1314190 |
| Dichlorodifluoromethane        | 75-71-8    | 120.92   | 0.400        | 1.98          | 0.514          | 2.54            |           | 2        | WG1314190 |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.40   | 0.400        | 3.07          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichlorotetrafluoroethane  | 76-14-2    | 171      | 0.400        | 2.80          | 0.584          | 4.08            |           | 2        | WG1314190 |
| Heptane                        | 142-82-5   | 100      | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1314190 |
| Hexachloro-1,3-butadiene       | 87-68-3    | 261      | 1.26         | 13.5          | ND             | ND              |           | 2        | WG1314190 |
| n-Hexane                       | 110-54-3   | 86.20    | 0.400        | 1.41          | ND             | ND              |           | 2        | WG1314190 |
| Isopropylbenzene               | 98-82-8    | 120.20   | 0.400        | 1.97          | ND             | ND              |           | 2        | WG1314190 |
| Methylene Chloride             | 75-09-2    | 84.90    | 0.400        | 1.39          | ND             | ND              |           | 2        | WG1314190 |
| Methyl Butyl Ketone            | 591-78-6   | 100      | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314190 |
| 2-Butanone (MEK)               | 78-93-3    | 72.10    | 2.50         | 7.37          | 4.38           | 12.9            |           | 2        | WG1314190 |
| 4-Methyl-2-pentanone (MIBK)    | 108-10-1   | 100.10   | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314190 |
| Methyl methacrylate            | 80-62-6    | 100.12   | 0.400        | 1.64          | 1.09           | 4.48            |           | 2        | WG1314190 |
| MTBE                           | 1634-04-4  | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314190 |
| Naphthalene                    | 91-20-3    | 128      | 1.26         | 6.60          | ND             | ND              |           | 2        | WG1314190 |
| 2-Propanol                     | 67-63-0    | 60.10    | 2.50         | 6.15          | 3.58           | 8.80            |           | 2        | WG1314190 |
| Propene                        | 115-07-1   | 42.10    | 0.800        | 1.38          | ND             | ND              |           | 2        | WG1314190 |
| Styrene                        | 100-42-5   | 104      | 0.400        | 1.70          | 1.36           | 5.79            |           | 2        | WG1314190 |
| 1,1,2,2-Tetrachloroethane      | 79-34-5    | 168      | 0.400        | 2.75          | ND             | ND              |           | 2        | WG1314190 |
| Tetrachloroethylene            | 127-18-4   | 166      | 0.400        | 2.72          | 4.10           | 27.8            |           | 2        | WG1314190 |
| Tetrahydrofuran                | 109-99-9   | 72.10    | 0.400        | 1.18          | 3.76           | 11.1            |           | 2        | WG1314190 |
| Toluene                        | 108-88-3   | 92.10    | 0.400        | 1.51          | 6.57           | 24.8            |           | 2        | WG1314190 |
| 1,2,4-Trichlorobenzene         | 120-82-1   | 181      | 1.26         | 9.33          | ND             | ND              |           | 2        | WG1314190 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                    | CAS #     | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch                     |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|---------------------------|
| 1,1,1-Trichloroethane      | 71-55-6   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| 1,1,2-Trichloroethane      | 79-00-5   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Trichloroethylene          | 79-01-6   | 131      | 0.400        | 2.14          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| 1,2,4-Trimethylbenzene     | 95-63-6   | 120      | 0.400        | 1.96          | 2.69           | 13.2            |           | 2        | <a href="#">WG1314190</a> |
| 1,3,5-Trimethylbenzene     | 108-67-8  | 120      | 0.400        | 1.96          | 0.732          | 3.59            |           | 2        | <a href="#">WG1314190</a> |
| 2,2,4-Trimethylpentane     | 540-84-1  | 114.22   | 0.400        | 1.87          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Vinyl chloride             | 75-01-4   | 62.50    | 0.400        | 1.02          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Vinyl Bromide              | 593-60-2  | 106.95   | 0.400        | 1.75          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Vinyl acetate              | 108-05-4  | 86.10    | 0.400        | 1.41          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| m&p-Xylene                 | 1330-20-7 | 106      | 0.800        | 3.47          | 7.69           | 33.3            |           | 2        | <a href="#">WG1314190</a> |
| o-Xylene                   | 95-47-6   | 106      | 0.400        | 1.73          | 2.73           | 11.8            |           | 2        | <a href="#">WG1314190</a> |
| TPH (GC/MS) Low Fraction   | 8006-61-9 | 101      | 100          | 413           | 215            | 889             | <u>B</u>  | 2        | <a href="#">WG1314190</a> |
| 1,1-Difluoroethane         | 75-37-6   | 66.05    | 0.400        | 1.08          | 1.06           | 2.85            |           | 2        | <a href="#">WG1314190</a> |
| 1,2,3-Trimethylbenzene     | 526-73-8  | 120.10   | 0.400        | 1.96          | 0.607          | 2.98            |           | 2        | <a href="#">WG1314190</a> |
| Chlorodifluoromethane      | 75-45-6   | 86.50    | 0.400        | 1.42          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Dicyclopentadiene          | 77-73-6   | 132.20   | 0.400        | 2.16          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Ethyl acetate              | 141-78-6  | 88       | 0.400        | 1.44          | 0.796          | 2.86            |           | 2        | <a href="#">WG1314190</a> |
| Methyl Cyclohexane         | 108-87-2  | 98.1860  | 0.400        | 1.61          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Tert-Amyl Ethyl Ether      | 919-94-8  | 116.20   | 0.400        | 1.90          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 100            |                 |           |          | <a href="#">WG1314190</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Collected date/time: 07/15/19 14:51

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## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                        | CAS #      | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch     |
|--------------------------------|------------|----------|--------------|---------------|----------------|-----------------|-----------|----------|-----------|
| Acetone                        | 67-64-1    | 58.10    | 2.50         | 5.94          | 5.21           | 12.4            |           | 2        | WG1314190 |
| Allyl chloride                 | 107-05-1   | 76.53    | 0.400        | 1.25          | ND             | ND              |           | 2        | WG1314190 |
| Benzene                        | 71-43-2    | 78.10    | 0.400        | 1.28          | 1.77           | 5.65            |           | 2        | WG1314190 |
| Benzyl Chloride                | 100-44-7   | 127      | 0.400        | 2.08          | ND             | ND              |           | 2        | WG1314190 |
| Bromodichloromethane           | 75-27-4    | 164      | 0.400        | 2.68          | ND             | ND              |           | 2        | WG1314190 |
| Bromoform                      | 75-25-2    | 253      | 1.20         | 12.4          | ND             | ND              |           | 2        | WG1314190 |
| Bromomethane                   | 74-83-9    | 94.90    | 0.400        | 1.55          | ND             | ND              |           | 2        | WG1314190 |
| 1,3-Butadiene                  | 106-99-0   | 54.10    | 4.00         | 8.85          | ND             | ND              |           | 2        | WG1314190 |
| Carbon disulfide               | 75-15-0    | 76.10    | 0.400        | 1.24          | 0.955          | 2.97            |           | 2        | WG1314190 |
| Carbon tetrachloride           | 56-23-5    | 154      | 0.400        | 2.52          | ND             | ND              |           | 2        | WG1314190 |
| Chlorobenzene                  | 108-90-7   | 113      | 0.400        | 1.85          | 2.60           | 12.0            |           | 2        | WG1314190 |
| Chloroethane                   | 75-00-3    | 64.50    | 0.400        | 1.06          | 1.45           | 3.83            |           | 2        | WG1314190 |
| Chloroform                     | 67-66-3    | 119      | 0.400        | 1.95          | 0.678          | 3.30            |           | 2        | WG1314190 |
| Chloromethane                  | 74-87-3    | 50.50    | 0.400        | 0.826         | ND             | ND              |           | 2        | WG1314190 |
| 2-Chlorotoluene                | 95-49-8    | 126      | 0.400        | 2.06          | ND             | ND              |           | 2        | WG1314190 |
| Cyclohexane                    | 110-82-7   | 84.20    | 0.400        | 1.38          | ND             | ND              |           | 2        | WG1314190 |
| Dibromochloromethane           | 124-48-1   | 208      | 0.400        | 3.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dibromoethane              | 106-93-4   | 188      | 0.400        | 3.08          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichlorobenzene            | 95-50-1    | 147      | 0.400        | 2.40          | 0.455          | 2.74            | B         | 2        | WG1314190 |
| 1,3-Dichlorobenzene            | 541-73-1   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,4-Dichlorobenzene            | 106-46-7   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichloroethane             | 107-06-2   | 99       | 0.400        | 1.62          | ND             | ND              |           | 2        | WG1314190 |
| 1,1-Dichloroethane             | 75-34-3    | 98       | 0.400        | 1.60          | ND             | ND              |           | 2        | WG1314190 |
| 1,1-Dichloroethene             | 75-35-4    | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichloropropane            | 78-87-5    | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1314190 |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314190 |
| trans-1,3-Dichloropropene      | 10061-02-6 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314190 |
| 1,4-Dioxane                    | 123-91-1   | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314190 |
| Ethanol                        | 64-17-5    | 46.10    | 1.26         | 2.38          | 24.5           | 46.1            |           | 2        | WG1314190 |
| Ethylbenzene                   | 100-41-4   | 106      | 0.400        | 1.73          | 1.25           | 5.42            |           | 2        | WG1314190 |
| 4-Ethyltoluene                 | 622-96-8   | 120      | 0.400        | 1.96          | 0.452          | 2.22            |           | 2        | WG1314190 |
| Trichlorofluoromethane         | 75-69-4    | 137.40   | 40.0         | 225           | 783            | 4400            |           | 200      | WG1314791 |
| Dichlorodifluoromethane        | 75-71-8    | 120.92   | 0.400        | 1.98          | 3.81           | 18.9            |           | 2        | WG1314190 |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.40   | 0.400        | 3.07          | 0.666          | 5.10            |           | 2        | WG1314190 |
| 1,2-Dichlorotetrafluoroethane  | 76-14-2    | 171      | 0.400        | 2.80          | ND             | ND              |           | 2        | WG1314190 |
| Heptane                        | 142-82-5   | 100      | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1314190 |
| Hexachloro-1,3-butadiene       | 87-68-3    | 261      | 1.26         | 13.5          | ND             | ND              |           | 2        | WG1314190 |
| n-Hexane                       | 110-54-3   | 86.20    | 0.400        | 1.41          | 0.549          | 1.94            |           | 2        | WG1314190 |
| Isopropylbenzene               | 98-82-8    | 120.20   | 0.400        | 1.97          | ND             | ND              |           | 2        | WG1314190 |
| Methylene Chloride             | 75-09-2    | 84.90    | 0.400        | 1.39          | 2.03           | 7.05            |           | 2        | WG1314190 |
| Methyl Butyl Ketone            | 591-78-6   | 100      | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314190 |
| 2-Butanone (MEK)               | 78-93-3    | 72.10    | 2.50         | 7.37          | ND             | ND              |           | 2        | WG1314190 |
| 4-Methyl-2-pentanone (MIBK)    | 108-10-1   | 100.10   | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314190 |
| Methyl methacrylate            | 80-62-6    | 100.12   | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1314190 |
| MTBE                           | 1634-04-4  | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314190 |
| Naphthalene                    | 91-20-3    | 128      | 1.26         | 6.60          | ND             | ND              |           | 2        | WG1314190 |
| 2-Propanol                     | 67-63-0    | 60.10    | 2.50         | 6.15          | ND             | ND              |           | 2        | WG1314190 |
| Propene                        | 115-07-1   | 42.10    | 0.800        | 1.38          | ND             | ND              |           | 2        | WG1314190 |
| Styrene                        | 100-42-5   | 104      | 0.400        | 1.70          | 0.902          | 3.84            |           | 2        | WG1314190 |
| 1,1,2,2-Tetrachloroethane      | 79-34-5    | 168      | 0.400        | 2.75          | ND             | ND              |           | 2        | WG1314190 |
| Tetrachloroethylene            | 127-18-4   | 166      | 0.400        | 2.72          | 1.09           | 7.41            |           | 2        | WG1314190 |
| Tetrahydrofuran                | 109-99-9   | 72.10    | 0.400        | 1.18          | 1.61           | 4.75            |           | 2        | WG1314190 |
| Toluene                        | 108-88-3   | 92.10    | 0.400        | 1.51          | 4.21           | 15.9            |           | 2        | WG1314190 |
| 1,2,4-Trichlorobenzene         | 120-82-1   | 181      | 1.26         | 9.33          | ND             | ND              |           | 2        | WG1314190 |

1 Cp

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## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                    | CAS #     | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch     |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|-----------|
| 1,1,1-Trichloroethane      | 71-55-6   | 133      | 0.400        | 2.18          | 0.680          | 3.70            |           | 2        | WG1314190 |
| 1,1,2-Trichloroethane      | 79-00-5   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | WG1314190 |
| Trichloroethylene          | 79-01-6   | 131      | 0.400        | 2.14          | 1.77           | 9.50            |           | 2        | WG1314190 |
| 1,2,4-Trimethylbenzene     | 95-63-6   | 120      | 0.400        | 1.96          | 2.42           | 11.9            |           | 2        | WG1314190 |
| 1,3,5-Trimethylbenzene     | 108-67-8  | 120      | 0.400        | 1.96          | 0.624          | 3.06            |           | 2        | WG1314190 |
| 2,2,4-Trimethylpentane     | 540-84-1  | 114.22   | 0.400        | 1.87          | ND             | ND              |           | 2        | WG1314190 |
| Vinyl chloride             | 75-01-4   | 62.50    | 0.400        | 1.02          | ND             | ND              |           | 2        | WG1314190 |
| Vinyl Bromide              | 593-60-2  | 106.95   | 0.400        | 1.75          | ND             | ND              |           | 2        | WG1314190 |
| Vinyl acetate              | 108-05-4  | 86.10    | 0.400        | 1.41          | ND             | ND              |           | 2        | WG1314190 |
| m&p-Xylene                 | 1330-20-7 | 106      | 0.800        | 3.47          | 5.37           | 23.3            |           | 2        | WG1314190 |
| o-Xylene                   | 95-47-6   | 106      | 0.400        | 1.73          | 1.73           | 7.50            |           | 2        | WG1314190 |
| TPH (GC/MS) Low Fraction   | 8006-61-9 | 101      | 100          | 413           | 138            | 568             | B         | 2        | WG1314190 |
| 1,1-Difluoroethane         | 75-37-6   | 66.05    | 0.400        | 1.08          | 13.9           | 37.5            |           | 2        | WG1314190 |
| 1,2,3-Trimethylbenzene     | 526-73-8  | 120.10   | 0.400        | 1.96          | 0.686          | 3.37            |           | 2        | WG1314190 |
| Chlorodifluoromethane      | 75-45-6   | 86.50    | 0.400        | 1.42          | 0.605          | 2.14            |           | 2        | WG1314190 |
| Dicyclopentadiene          | 77-73-6   | 132.20   | 0.400        | 2.16          | ND             | ND              |           | 2        | WG1314190 |
| Ethyl acetate              | 141-78-6  | 88       | 0.400        | 1.44          | 0.470          | 1.69            |           | 2        | WG1314190 |
| Methyl Cyclohexane         | 108-87-2  | 98.1860  | 0.400        | 1.61          | ND             | ND              |           | 2        | WG1314190 |
| Tert-Amyl Ethyl Ether      | 919-94-8  | 116.20   | 0.400        | 1.90          | ND             | ND              |           | 2        | WG1314190 |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 97.3           |                 |           |          | WG1314190 |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 98.0           |                 |           |          | WG1314791 |

1 Cp

2 Tc

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4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                        | CAS #      | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch     |
|--------------------------------|------------|----------|--------------|---------------|----------------|-----------------|-----------|----------|-----------|
| Acetone                        | 67-64-1    | 58.10    | 2.50         | 5.94          | 61.5           | 146             |           | 2        | WG1314190 |
| Allyl chloride                 | 107-05-1   | 76.53    | 0.400        | 1.25          | ND             | ND              |           | 2        | WG1314190 |
| Benzene                        | 71-43-2    | 78.10    | 0.400        | 1.28          | 1.43           | 4.56            |           | 2        | WG1314190 |
| Benzyl Chloride                | 100-44-7   | 127      | 0.400        | 2.08          | ND             | ND              |           | 2        | WG1314190 |
| Bromodichloromethane           | 75-27-4    | 164      | 0.400        | 2.68          | ND             | ND              |           | 2        | WG1314190 |
| Bromoform                      | 75-25-2    | 253      | 1.20         | 12.4          | ND             | ND              |           | 2        | WG1314190 |
| Bromomethane                   | 74-83-9    | 94.90    | 0.400        | 1.55          | ND             | ND              |           | 2        | WG1314190 |
| 1,3-Butadiene                  | 106-99-0   | 54.10    | 4.00         | 8.85          | ND             | ND              |           | 2        | WG1314190 |
| Carbon disulfide               | 75-15-0    | 76.10    | 0.400        | 1.24          | 4.50           | 14.0            |           | 2        | WG1314190 |
| Carbon tetrachloride           | 56-23-5    | 154      | 0.400        | 2.52          | ND             | ND              |           | 2        | WG1314190 |
| Chlorobenzene                  | 108-90-7   | 113      | 0.400        | 1.85          | 1.08           | 5.01            |           | 2        | WG1314190 |
| Chloroethane                   | 75-00-3    | 64.50    | 0.400        | 1.06          | 3.26           | 8.59            |           | 2        | WG1314190 |
| Chloroform                     | 67-66-3    | 119      | 0.400        | 1.95          | 0.726          | 3.53            |           | 2        | WG1314190 |
| Chloromethane                  | 74-87-3    | 50.50    | 0.400        | 0.826         | 0.598          | 1.24            |           | 2        | WG1314190 |
| 2-Chlorotoluene                | 95-49-8    | 126      | 0.400        | 2.06          | ND             | ND              |           | 2        | WG1314190 |
| Cyclohexane                    | 110-82-7   | 84.20    | 0.400        | 1.38          | 1.21           | 4.16            |           | 2        | WG1314190 |
| Dibromochloromethane           | 124-48-1   | 208      | 0.400        | 3.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dibromoethane              | 106-93-4   | 188      | 0.400        | 3.08          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichlorobenzene            | 95-50-1    | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,3-Dichlorobenzene            | 541-73-1   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,4-Dichlorobenzene            | 106-46-7   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichloroethane             | 107-06-2   | 99       | 0.400        | 1.62          | ND             | ND              |           | 2        | WG1314190 |
| 1,1-Dichloroethane             | 75-34-3    | 98       | 0.400        | 1.60          | ND             | ND              |           | 2        | WG1314190 |
| 1,1-Dichloroethene             | 75-35-4    | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichloropropane            | 78-87-5    | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1314190 |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314190 |
| trans-1,3-Dichloropropene      | 10061-02-6 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314190 |
| 1,4-Dioxane                    | 123-91-1   | 88.10    | 0.400        | 1.44          | 0.471          | 1.70            | B         | 2        | WG1314190 |
| Ethanol                        | 64-17-5    | 46.10    | 1.26         | 2.38          | 47.1           | 88.8            |           | 2        | WG1314190 |
| Ethylbenzene                   | 100-41-4   | 106      | 0.400        | 1.73          | 2.75           | 11.9            |           | 2        | WG1314190 |
| 4-Ethyltoluene                 | 622-96-8   | 120      | 0.400        | 1.96          | 0.706          | 3.46            |           | 2        | WG1314190 |
| Trichlorofluoromethane         | 75-69-4    | 137.40   | 5.00         | 28.1          | 132            | 741             |           | 25       | WG1314791 |
| Dichlorodifluoromethane        | 75-71-8    | 120.92   | 0.400        | 1.98          | 0.846          | 4.18            |           | 2        | WG1314190 |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.40   | 0.400        | 3.07          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichlorotetrafluoroethane  | 76-14-2    | 171      | 0.400        | 2.80          | ND             | ND              |           | 2        | WG1314190 |
| Heptane                        | 142-82-5   | 100      | 0.400        | 1.64          | 1.80           | 7.38            |           | 2        | WG1314190 |
| Hexachloro-1,3-butadiene       | 87-68-3    | 261      | 1.26         | 13.5          | ND             | ND              |           | 2        | WG1314190 |
| n-Hexane                       | 110-54-3   | 86.20    | 0.400        | 1.41          | 2.15           | 7.58            |           | 2        | WG1314190 |
| Isopropylbenzene               | 98-82-8    | 120.20   | 0.400        | 1.97          | 0.442          | 2.17            |           | 2        | WG1314190 |
| Methylene Chloride             | 75-09-2    | 84.90    | 0.400        | 1.39          | 0.551          | 1.91            | B         | 2        | WG1314190 |
| Methyl Butyl Ketone            | 591-78-6   | 100      | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314190 |
| 2-Butanone (MEK)               | 78-93-3    | 72.10    | 2.50         | 7.37          | 7.93           | 23.4            |           | 2        | WG1314190 |
| 4-Methyl-2-pentanone (MIBK)    | 108-10-1   | 100.10   | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314190 |
| Methyl methacrylate            | 80-62-6    | 100.12   | 0.400        | 1.64          | 0.571          | 2.34            |           | 2        | WG1314190 |
| MTBE                           | 1634-04-4  | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314190 |
| Naphthalene                    | 91-20-3    | 128      | 1.26         | 6.60          | ND             | ND              |           | 2        | WG1314190 |
| 2-Propanol                     | 67-63-0    | 60.10    | 2.50         | 6.15          | 10.7           | 26.3            |           | 2        | WG1314190 |
| Propene                        | 115-07-1   | 42.10    | 0.800        | 1.38          | ND             | ND              |           | 2        | WG1314190 |
| Styrene                        | 100-42-5   | 104      | 0.400        | 1.70          | 1.92           | 8.17            |           | 2        | WG1314190 |
| 1,1,2,2-Tetrachloroethane      | 79-34-5    | 168      | 0.400        | 2.75          | ND             | ND              |           | 2        | WG1314190 |
| Tetrachloroethylene            | 127-18-4   | 166      | 0.400        | 2.72          | 1.02           | 6.92            |           | 2        | WG1314190 |
| Tetrahydrofuran                | 109-99-9   | 72.10    | 0.400        | 1.18          | 6.69           | 19.7            |           | 2        | WG1314190 |
| Toluene                        | 108-88-3   | 92.10    | 0.400        | 1.51          | 18.4           | 69.2            |           | 2        | WG1314190 |
| 1,2,4-Trichlorobenzene         | 120-82-1   | 181      | 1.26         | 9.33          | ND             | ND              |           | 2        | WG1314190 |

1 Cp

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## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                    | CAS #     | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch                     |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|---------------------------|
| 1,1,1-Trichloroethane      | 71-55-6   | 133      | 0.400        | 2.18          | 0.575          | 3.13            |           | 2        | <a href="#">WG1314190</a> |
| 1,1,2-Trichloroethane      | 79-00-5   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Trichloroethylene          | 79-01-6   | 131      | 0.400        | 2.14          | 2.61           | 14.0            |           | 2        | <a href="#">WG1314190</a> |
| 1,2,4-Trimethylbenzene     | 95-63-6   | 120      | 0.400        | 1.96          | 3.07           | 15.1            |           | 2        | <a href="#">WG1314190</a> |
| 1,3,5-Trimethylbenzene     | 108-67-8  | 120      | 0.400        | 1.96          | 0.828          | 4.06            |           | 2        | <a href="#">WG1314190</a> |
| 2,2,4-Trimethylpentane     | 540-84-1  | 114.22   | 0.400        | 1.87          | 0.973          | 4.55            |           | 2        | <a href="#">WG1314190</a> |
| Vinyl chloride             | 75-01-4   | 62.50    | 0.400        | 1.02          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Vinyl Bromide              | 593-60-2  | 106.95   | 0.400        | 1.75          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Vinyl acetate              | 108-05-4  | 86.10    | 0.400        | 1.41          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| m&p-Xylene                 | 1330-20-7 | 106      | 0.800        | 3.47          | 10.6           | 45.9            |           | 2        | <a href="#">WG1314190</a> |
| o-Xylene                   | 95-47-6   | 106      | 0.400        | 1.73          | 4.12           | 17.9            |           | 2        | <a href="#">WG1314190</a> |
| TPH (GC/MS) Low Fraction   | 8006-61-9 | 101      | 100          | 413           | 291            | 1200            | <u>B</u>  | 2        | <a href="#">WG1314190</a> |
| 1,1-Difluoroethane         | 75-37-6   | 66.05    | 0.400        | 1.08          | 3.20           | 8.65            |           | 2        | <a href="#">WG1314190</a> |
| 1,2,3-Trimethylbenzene     | 526-73-8  | 120.10   | 0.400        | 1.96          | 0.683          | 3.36            |           | 2        | <a href="#">WG1314190</a> |
| Chlorodifluoromethane      | 75-45-6   | 86.50    | 0.400        | 1.42          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Dicyclopentadiene          | 77-73-6   | 132.20   | 0.400        | 2.16          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Ethyl acetate              | 141-78-6  | 88       | 0.400        | 1.44          | 0.588          | 2.11            |           | 2        | <a href="#">WG1314190</a> |
| Methyl Cyclohexane         | 108-87-2  | 98.1860  | 0.400        | 1.61          | 2.85           | 11.4            |           | 2        | <a href="#">WG1314190</a> |
| Tert-Amyl Ethyl Ether      | 919-94-8  | 116.20   | 0.400        | 1.90          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 98.8           |                 |           |          | <a href="#">WG1314190</a> |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 107            |                 |           |          | <a href="#">WG1314791</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 07/15/19 15:49

L1119489

## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                        | CAS #      | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch     |
|--------------------------------|------------|----------|--------------|---------------|----------------|-----------------|-----------|----------|-----------|
| Acetone                        | 67-64-1    | 58.10    | 2.50         | 5.94          | 6.59           | 15.7            |           | 2        | WG1314190 |
| Allyl chloride                 | 107-05-1   | 76.53    | 0.400        | 1.25          | ND             | ND              |           | 2        | WG1314190 |
| Benzene                        | 71-43-2    | 78.10    | 0.400        | 1.28          | 1.50           | 4.81            |           | 2        | WG1314190 |
| Benzyl Chloride                | 100-44-7   | 127      | 0.400        | 2.08          | ND             | ND              |           | 2        | WG1314190 |
| Bromodichloromethane           | 75-27-4    | 164      | 0.400        | 2.68          | ND             | ND              |           | 2        | WG1314190 |
| Bromoform                      | 75-25-2    | 253      | 1.20         | 12.4          | ND             | ND              |           | 2        | WG1314190 |
| Bromomethane                   | 74-83-9    | 94.90    | 0.400        | 1.55          | ND             | ND              |           | 2        | WG1314190 |
| 1,3-Butadiene                  | 106-99-0   | 54.10    | 4.00         | 8.85          | ND             | ND              |           | 2        | WG1314190 |
| Carbon disulfide               | 75-15-0    | 76.10    | 0.400        | 1.24          | 1.83           | 5.71            |           | 2        | WG1314190 |
| Carbon tetrachloride           | 56-23-5    | 154      | 0.400        | 2.52          | ND             | ND              |           | 2        | WG1314190 |
| Chlorobenzene                  | 108-90-7   | 113      | 0.400        | 1.85          | 2.27           | 10.5            |           | 2        | WG1314190 |
| Chloroethane                   | 75-00-3    | 64.50    | 0.400        | 1.06          | ND             | ND              |           | 2        | WG1314190 |
| Chloroform                     | 67-66-3    | 119      | 0.400        | 1.95          | ND             | ND              |           | 2        | WG1314190 |
| Chloromethane                  | 74-87-3    | 50.50    | 0.400        | 0.826         | ND             | ND              |           | 2        | WG1314190 |
| 2-Chlorotoluene                | 95-49-8    | 126      | 0.400        | 2.06          | ND             | ND              |           | 2        | WG1314190 |
| Cyclohexane                    | 110-82-7   | 84.20    | 0.400        | 1.38          | ND             | ND              |           | 2        | WG1314190 |
| Dibromochloromethane           | 124-48-1   | 208      | 0.400        | 3.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dibromoethane              | 106-93-4   | 188      | 0.400        | 3.08          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichlorobenzene            | 95-50-1    | 147      | 0.400        | 2.40          | 0.721          | 4.34            | B         | 2        | WG1314190 |
| 1,3-Dichlorobenzene            | 541-73-1   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,4-Dichlorobenzene            | 106-46-7   | 147      | 0.400        | 2.40          | 0.482          | 2.90            | B         | 2        | WG1314190 |
| 1,2-Dichloroethane             | 107-06-2   | 99       | 0.400        | 1.62          | ND             | ND              |           | 2        | WG1314190 |
| 1,1-Dichloroethane             | 75-34-3    | 98       | 0.400        | 1.60          | ND             | ND              |           | 2        | WG1314190 |
| 1,1-Dichloroethene             | 75-35-4    | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichloropropane            | 78-87-5    | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1314190 |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314190 |
| trans-1,3-Dichloropropene      | 10061-02-6 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314190 |
| 1,4-Dioxane                    | 123-91-1   | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314190 |
| Ethanol                        | 64-17-5    | 46.10    | 1.26         | 2.38          | 10.7           | 20.2            |           | 2        | WG1314190 |
| Ethylbenzene                   | 100-41-4   | 106      | 0.400        | 1.73          | 1.08           | 4.67            |           | 2        | WG1314190 |
| 4-Ethyltoluene                 | 622-96-8   | 120      | 0.400        | 1.96          | 0.614          | 3.02            |           | 2        | WG1314190 |
| Trichlorofluoromethane         | 75-69-4    | 137.40   | 0.400        | 2.25          | 0.831          | 4.67            |           | 2        | WG1314190 |
| Dichlorodifluoromethane        | 75-71-8    | 120.92   | 0.400        | 1.98          | 0.484          | 2.39            |           | 2        | WG1314190 |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.40   | 0.400        | 3.07          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichlorotetrafluoroethane  | 76-14-2    | 171      | 0.400        | 2.80          | ND             | ND              |           | 2        | WG1314190 |
| Heptane                        | 142-82-5   | 100      | 0.400        | 1.64          | 0.633          | 2.59            |           | 2        | WG1314190 |
| Hexachloro-1,3-butadiene       | 87-68-3    | 261      | 1.26         | 13.5          | ND             | ND              |           | 2        | WG1314190 |
| n-Hexane                       | 110-54-3   | 86.20    | 0.400        | 1.41          | 0.697          | 2.46            |           | 2        | WG1314190 |
| Isopropylbenzene               | 98-82-8    | 120.20   | 0.400        | 1.97          | ND             | ND              |           | 2        | WG1314190 |
| Methylene Chloride             | 75-09-2    | 84.90    | 0.400        | 1.39          | ND             | ND              |           | 2        | WG1314190 |
| Methyl Butyl Ketone            | 591-78-6   | 100      | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314190 |
| 2-Butanone (MEK)               | 78-93-3    | 72.10    | 2.50         | 7.37          | ND             | ND              |           | 2        | WG1314190 |
| 4-Methyl-2-pentanone (MIBK)    | 108-10-1   | 100.10   | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314190 |
| Methyl methacrylate            | 80-62-6    | 100.12   | 0.400        | 1.64          | 0.464          | 1.90            |           | 2        | WG1314190 |
| MTBE                           | 1634-04-4  | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314190 |
| Naphthalene                    | 91-20-3    | 128      | 1.26         | 6.60          | 4.92           | 25.8            | B         | 2        | WG1314190 |
| 2-Propanol                     | 67-63-0    | 60.10    | 2.50         | 6.15          | ND             | ND              |           | 2        | WG1314190 |
| Propene                        | 115-07-1   | 42.10    | 0.800        | 1.38          | ND             | ND              |           | 2        | WG1314190 |
| Styrene                        | 100-42-5   | 104      | 0.400        | 1.70          | 1.05           | 4.45            |           | 2        | WG1314190 |
| 1,1,2,2-Tetrachloroethane      | 79-34-5    | 168      | 0.400        | 2.75          | ND             | ND              |           | 2        | WG1314190 |
| Tetrachloroethylene            | 127-18-4   | 166      | 0.400        | 2.72          | 55.0           | 373             |           | 2        | WG1314190 |
| Tetrahydrofuran                | 109-99-9   | 72.10    | 0.400        | 1.18          | 1.74           | 5.13            |           | 2        | WG1314190 |
| Toluene                        | 108-88-3   | 92.10    | 0.400        | 1.51          | 2.93           | 11.0            |           | 2        | WG1314190 |
| 1,2,4-Trichlorobenzene         | 120-82-1   | 181      | 1.26         | 9.33          | ND             | ND              |           | 2        | WG1314190 |

1 Cp

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ACCOUNT:

ATC Group Services - Novi, MI

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NPJBD19002

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## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                    | CAS #     | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch                     |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|---------------------------|
| 1,1,1-Trichloroethane      | 71-55-6   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| 1,1,2-Trichloroethane      | 79-00-5   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Trichloroethylene          | 79-01-6   | 131      | 0.400        | 2.14          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| 1,2,4-Trimethylbenzene     | 95-63-6   | 120      | 0.400        | 1.96          | 3.68           | 18.1            |           | 2        | <a href="#">WG1314190</a> |
| 1,3,5-Trimethylbenzene     | 108-67-8  | 120      | 0.400        | 1.96          | 1.32           | 6.50            |           | 2        | <a href="#">WG1314190</a> |
| 2,2,4-Trimethylpentane     | 540-84-1  | 114.22   | 0.400        | 1.87          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Vinyl chloride             | 75-01-4   | 62.50    | 0.400        | 1.02          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Vinyl Bromide              | 593-60-2  | 106.95   | 0.400        | 1.75          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Vinyl acetate              | 108-05-4  | 86.10    | 0.400        | 1.41          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| m&p-Xylene                 | 1330-20-7 | 106      | 0.800        | 3.47          | 4.96           | 21.5            |           | 2        | <a href="#">WG1314190</a> |
| o-Xylene                   | 95-47-6   | 106      | 0.400        | 1.73          | 1.71           | 7.42            |           | 2        | <a href="#">WG1314190</a> |
| TPH (GC/MS) Low Fraction   | 8006-61-9 | 101      | 100          | 413           | 264            | 1090            | <u>B</u>  | 2        | <a href="#">WG1314190</a> |
| 1,1-Difluoroethane         | 75-37-6   | 66.05    | 0.400        | 1.08          | 0.658          | 1.78            |           | 2        | <a href="#">WG1314190</a> |
| 1,2,3-Trimethylbenzene     | 526-73-8  | 120.10   | 0.400        | 1.96          | 1.25           | 6.15            |           | 2        | <a href="#">WG1314190</a> |
| Chlorodifluoromethane      | 75-45-6   | 86.50    | 0.400        | 1.42          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Dicyclopentadiene          | 77-73-6   | 132.20   | 0.400        | 2.16          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Ethyl acetate              | 141-78-6  | 88       | 0.400        | 1.44          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Methyl Cyclohexane         | 108-87-2  | 98.1860  | 0.400        | 1.61          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Tert-Amyl Ethyl Ether      | 919-94-8  | 116.20   | 0.400        | 1.90          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 95.1           |                 |           |          | <a href="#">WG1314190</a> |

1 Cp

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Collected date/time: 07/15/19 15:52

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## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                        | CAS #      | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch     |
|--------------------------------|------------|----------|--------------|---------------|----------------|-----------------|-----------|----------|-----------|
| Acetone                        | 67-64-1    | 58.10    | 2.50         | 5.94          | 4.09           | 9.73            |           | 2        | WG1314190 |
| Allyl chloride                 | 107-05-1   | 76.53    | 0.400        | 1.25          | ND             | ND              |           | 2        | WG1314190 |
| Benzene                        | 71-43-2    | 78.10    | 0.400        | 1.28          | 1.51           | 4.82            |           | 2        | WG1314190 |
| Benzyl Chloride                | 100-44-7   | 127      | 0.400        | 2.08          | ND             | ND              |           | 2        | WG1314190 |
| Bromodichloromethane           | 75-27-4    | 164      | 0.400        | 2.68          | ND             | ND              |           | 2        | WG1314190 |
| Bromoform                      | 75-25-2    | 253      | 1.20         | 12.4          | ND             | ND              |           | 2        | WG1314190 |
| Bromomethane                   | 74-83-9    | 94.90    | 0.400        | 1.55          | ND             | ND              |           | 2        | WG1314190 |
| 1,3-Butadiene                  | 106-99-0   | 54.10    | 4.00         | 8.85          | ND             | ND              |           | 2        | WG1314190 |
| Carbon disulfide               | 75-15-0    | 76.10    | 0.400        | 1.24          | 0.443          | 1.38            |           | 2        | WG1314190 |
| Carbon tetrachloride           | 56-23-5    | 154      | 0.400        | 2.52          | ND             | ND              |           | 2        | WG1314190 |
| Chlorobenzene                  | 108-90-7   | 113      | 0.400        | 1.85          | 1.88           | 8.69            |           | 2        | WG1314190 |
| Chloroethane                   | 75-00-3    | 64.50    | 0.400        | 1.06          | ND             | ND              |           | 2        | WG1314190 |
| Chloroform                     | 67-66-3    | 119      | 0.400        | 1.95          | ND             | ND              |           | 2        | WG1314190 |
| Chloromethane                  | 74-87-3    | 50.50    | 0.400        | 0.826         | ND             | ND              |           | 2        | WG1314190 |
| 2-Chlorotoluene                | 95-49-8    | 126      | 0.400        | 2.06          | ND             | ND              |           | 2        | WG1314190 |
| Cyclohexane                    | 110-82-7   | 84.20    | 0.400        | 1.38          | ND             | ND              |           | 2        | WG1314190 |
| Dibromochloromethane           | 124-48-1   | 208      | 0.400        | 3.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dibromoethane              | 106-93-4   | 188      | 0.400        | 3.08          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichlorobenzene            | 95-50-1    | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,3-Dichlorobenzene            | 541-73-1   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,4-Dichlorobenzene            | 106-46-7   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichloroethane             | 107-06-2   | 99       | 0.400        | 1.62          | ND             | ND              |           | 2        | WG1314190 |
| 1,1-Dichloroethane             | 75-34-3    | 98       | 0.400        | 1.60          | ND             | ND              |           | 2        | WG1314190 |
| 1,1-Dichloroethene             | 75-35-4    | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichloropropane            | 78-87-5    | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1314190 |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314190 |
| trans-1,3-Dichloropropene      | 10061-02-6 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314190 |
| 1,4-Dioxane                    | 123-91-1   | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314190 |
| Ethanol                        | 64-17-5    | 46.10    | 1.26         | 2.38          | 15.4           | 29.1            |           | 2        | WG1314190 |
| Ethylbenzene                   | 100-41-4   | 106      | 0.400        | 1.73          | 1.43           | 6.18            |           | 2        | WG1314190 |
| 4-Ethyltoluene                 | 622-96-8   | 120      | 0.400        | 1.96          | 0.558          | 2.74            |           | 2        | WG1314190 |
| Trichlorofluoromethane         | 75-69-4    | 137.40   | 0.400        | 2.25          | 21.1           | 118             |           | 2        | WG1314190 |
| Dichlorodifluoromethane        | 75-71-8    | 120.92   | 0.400        | 1.98          | 1.32           | 6.53            |           | 2        | WG1314190 |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.40   | 0.400        | 3.07          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichlorotetrafluoroethane  | 76-14-2    | 171      | 0.400        | 2.80          | ND             | ND              |           | 2        | WG1314190 |
| Heptane                        | 142-82-5   | 100      | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1314190 |
| Hexachloro-1,3-butadiene       | 87-68-3    | 261      | 1.26         | 13.5          | ND             | ND              |           | 2        | WG1314190 |
| n-Hexane                       | 110-54-3   | 86.20    | 0.400        | 1.41          | ND             | ND              |           | 2        | WG1314190 |
| Isopropylbenzene               | 98-82-8    | 120.20   | 0.400        | 1.97          | ND             | ND              |           | 2        | WG1314190 |
| Methylene Chloride             | 75-09-2    | 84.90    | 0.400        | 1.39          | ND             | ND              |           | 2        | WG1314190 |
| Methyl Butyl Ketone            | 591-78-6   | 100      | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314190 |
| 2-Butanone (MEK)               | 78-93-3    | 72.10    | 2.50         | 7.37          | ND             | ND              |           | 2        | WG1314190 |
| 4-Methyl-2-pentanone (MIBK)    | 108-10-1   | 100.10   | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314190 |
| Methyl methacrylate            | 80-62-6    | 100.12   | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1314190 |
| MTBE                           | 1634-04-4  | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314190 |
| Naphthalene                    | 91-20-3    | 128      | 1.26         | 6.60          | ND             | ND              |           | 2        | WG1314190 |
| 2-Propanol                     | 67-63-0    | 60.10    | 2.50         | 6.15          | ND             | ND              |           | 2        | WG1314190 |
| Propene                        | 115-07-1   | 42.10    | 0.800        | 1.38          | ND             | ND              |           | 2        | WG1314190 |
| Styrene                        | 100-42-5   | 104      | 0.400        | 1.70          | 1.32           | 5.61            |           | 2        | WG1314190 |
| 1,1,2,2-Tetrachloroethane      | 79-34-5    | 168      | 0.400        | 2.75          | ND             | ND              |           | 2        | WG1314190 |
| Tetrachloroethylene            | 127-18-4   | 166      | 0.400        | 2.72          | 10.6           | 72.3            |           | 2        | WG1314190 |
| Tetrahydrofuran                | 109-99-9   | 72.10    | 0.400        | 1.18          | 1.46           | 4.32            |           | 2        | WG1314190 |
| Toluene                        | 108-88-3   | 92.10    | 0.400        | 1.51          | 4.27           | 16.1            |           | 2        | WG1314190 |
| 1,2,4-Trichlorobenzene         | 120-82-1   | 181      | 1.26         | 9.33          | ND             | ND              |           | 2        | WG1314190 |

1 Cp

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ACCOUNT:

ATC Group Services - Novi, MI

PROJECT:

NPJBD19002

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## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                    | CAS #     | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch                     |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|---------------------------|
| 1,1,1-Trichloroethane      | 71-55-6   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| 1,1,2-Trichloroethane      | 79-00-5   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Trichloroethylene          | 79-01-6   | 131      | 0.400        | 2.14          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| 1,2,4-Trimethylbenzene     | 95-63-6   | 120      | 0.400        | 1.96          | 2.42           | 11.9            |           | 2        | <a href="#">WG1314190</a> |
| 1,3,5-Trimethylbenzene     | 108-67-8  | 120      | 0.400        | 1.96          | 0.642          | 3.15            |           | 2        | <a href="#">WG1314190</a> |
| 2,2,4-Trimethylpentane     | 540-84-1  | 114.22   | 0.400        | 1.87          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Vinyl chloride             | 75-01-4   | 62.50    | 0.400        | 1.02          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Vinyl Bromide              | 593-60-2  | 106.95   | 0.400        | 1.75          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Vinyl acetate              | 108-05-4  | 86.10    | 0.400        | 1.41          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| m&p-Xylene                 | 1330-20-7 | 106      | 0.800        | 3.47          | 6.49           | 28.1            |           | 2        | <a href="#">WG1314190</a> |
| o-Xylene                   | 95-47-6   | 106      | 0.400        | 1.73          | 2.47           | 10.7            |           | 2        | <a href="#">WG1314190</a> |
| TPH (GC/MS) Low Fraction   | 8006-61-9 | 101      | 100          | 413           | 239            | 989             | <u>B</u>  | 2        | <a href="#">WG1314190</a> |
| 1,1-Difluoroethane         | 75-37-6   | 66.05    | 0.400        | 1.08          | 1.11           | 2.99            |           | 2        | <a href="#">WG1314190</a> |
| 1,2,3-Trimethylbenzene     | 526-73-8  | 120.10   | 0.400        | 1.96          | 0.549          | 2.70            |           | 2        | <a href="#">WG1314190</a> |
| Chlorodifluoromethane      | 75-45-6   | 86.50    | 0.400        | 1.42          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Dicyclopentadiene          | 77-73-6   | 132.20   | 0.400        | 2.16          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Ethyl acetate              | 141-78-6  | 88       | 0.400        | 1.44          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Methyl Cyclohexane         | 108-87-2  | 98.1860  | 0.400        | 1.61          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Tert-Amyl Ethyl Ether      | 919-94-8  | 116.20   | 0.400        | 1.90          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 99.1           |                 |           |          | <a href="#">WG1314190</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Collected date/time: 07/15/19 17:05

L1119489

## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                        | CAS #      | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch     |
|--------------------------------|------------|----------|--------------|---------------|----------------|-----------------|-----------|----------|-----------|
| Acetone                        | 67-64-1    | 58.10    | 2.50         | 5.94          | 5.94           | 14.1            |           | 2        | WG1314190 |
| Allyl chloride                 | 107-05-1   | 76.53    | 0.400        | 1.25          | ND             | ND              |           | 2        | WG1314190 |
| Benzene                        | 71-43-2    | 78.10    | 0.400        | 1.28          | 1.74           | 5.55            |           | 2        | WG1314190 |
| Benzyl Chloride                | 100-44-7   | 127      | 0.400        | 2.08          | ND             | ND              |           | 2        | WG1314190 |
| Bromodichloromethane           | 75-27-4    | 164      | 0.400        | 2.68          | ND             | ND              |           | 2        | WG1314190 |
| Bromoform                      | 75-25-2    | 253      | 1.20         | 12.4          | ND             | ND              |           | 2        | WG1314190 |
| Bromomethane                   | 74-83-9    | 94.90    | 0.400        | 1.55          | ND             | ND              |           | 2        | WG1314190 |
| 1,3-Butadiene                  | 106-99-0   | 54.10    | 4.00         | 8.85          | ND             | ND              |           | 2        | WG1314190 |
| Carbon disulfide               | 75-15-0    | 76.10    | 0.400        | 1.24          | ND             | ND              |           | 2        | WG1314190 |
| Carbon tetrachloride           | 56-23-5    | 154      | 0.400        | 2.52          | ND             | ND              |           | 2        | WG1314190 |
| Chlorobenzene                  | 108-90-7   | 113      | 0.400        | 1.85          | 2.22           | 10.3            |           | 2        | WG1314190 |
| Chloroethane                   | 75-00-3    | 64.50    | 0.400        | 1.06          | ND             | ND              |           | 2        | WG1314190 |
| Chloroform                     | 67-66-3    | 119      | 0.400        | 1.95          | ND             | ND              |           | 2        | WG1314190 |
| Chloromethane                  | 74-87-3    | 50.50    | 0.400        | 0.826         | ND             | ND              |           | 2        | WG1314190 |
| 2-Chlorotoluene                | 95-49-8    | 126      | 0.400        | 2.06          | ND             | ND              |           | 2        | WG1314190 |
| Cyclohexane                    | 110-82-7   | 84.20    | 0.400        | 1.38          | ND             | ND              |           | 2        | WG1314190 |
| Dibromochloromethane           | 124-48-1   | 208      | 0.400        | 3.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dibromoethane              | 106-93-4   | 188      | 0.400        | 3.08          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichlorobenzene            | 95-50-1    | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,3-Dichlorobenzene            | 541-73-1   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,4-Dichlorobenzene            | 106-46-7   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichloroethane             | 107-06-2   | 99       | 0.400        | 1.62          | ND             | ND              |           | 2        | WG1314190 |
| 1,1-Dichloroethane             | 75-34-3    | 98       | 0.400        | 1.60          | ND             | ND              |           | 2        | WG1314190 |
| 1,1-Dichloroethene             | 75-35-4    | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichloropropane            | 78-87-5    | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1314190 |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314190 |
| trans-1,3-Dichloropropene      | 10061-02-6 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314190 |
| 1,4-Dioxane                    | 123-91-1   | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314190 |
| Ethanol                        | 64-17-5    | 46.10    | 1.26         | 2.38          | 15.1           | 28.5            |           | 2        | WG1314190 |
| Ethylbenzene                   | 100-41-4   | 106      | 0.400        | 1.73          | 1.57           | 6.79            |           | 2        | WG1314190 |
| 4-Ethyltoluene                 | 622-96-8   | 120      | 0.400        | 1.96          | 0.709          | 3.48            |           | 2        | WG1314190 |
| Trichlorofluoromethane         | 75-69-4    | 137.40   | 0.400        | 2.25          | 29.7           | 167             |           | 2        | WG1314190 |
| Dichlorodifluoromethane        | 75-71-8    | 120.92   | 0.400        | 1.98          | 2.47           | 12.2            |           | 2        | WG1314190 |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.40   | 0.400        | 3.07          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichlorotetrafluoroethane  | 76-14-2    | 171      | 0.400        | 2.80          | ND             | ND              |           | 2        | WG1314190 |
| Heptane                        | 142-82-5   | 100      | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1314190 |
| Hexachloro-1,3-butadiene       | 87-68-3    | 261      | 1.26         | 13.5          | ND             | ND              |           | 2        | WG1314190 |
| n-Hexane                       | 110-54-3   | 86.20    | 0.400        | 1.41          | ND             | ND              |           | 2        | WG1314190 |
| Isopropylbenzene               | 98-82-8    | 120.20   | 0.400        | 1.97          | ND             | ND              |           | 2        | WG1314190 |
| Methylene Chloride             | 75-09-2    | 84.90    | 0.400        | 1.39          | ND             | ND              |           | 2        | WG1314190 |
| Methyl Butyl Ketone            | 591-78-6   | 100      | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314190 |
| 2-Butanone (MEK)               | 78-93-3    | 72.10    | 2.50         | 7.37          | ND             | ND              |           | 2        | WG1314190 |
| 4-Methyl-2-pentanone (MIBK)    | 108-10-1   | 100.10   | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314190 |
| Methyl methacrylate            | 80-62-6    | 100.12   | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1314190 |
| MTBE                           | 1634-04-4  | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314190 |
| Naphthalene                    | 91-20-3    | 128      | 1.26         | 6.60          | ND             | ND              |           | 2        | WG1314190 |
| 2-Propanol                     | 67-63-0    | 60.10    | 2.50         | 6.15          | 3.07           | 7.54            |           | 2        | WG1314190 |
| Propene                        | 115-07-1   | 42.10    | 0.800        | 1.38          | ND             | ND              |           | 2        | WG1314190 |
| Styrene                        | 100-42-5   | 104      | 0.400        | 1.70          | 1.07           | 4.57            |           | 2        | WG1314190 |
| 1,1,2,2-Tetrachloroethane      | 79-34-5    | 168      | 0.400        | 2.75          | ND             | ND              |           | 2        | WG1314190 |
| Tetrachloroethylene            | 127-18-4   | 166      | 0.400        | 2.72          | 1.96           | 13.3            |           | 2        | WG1314190 |
| Tetrahydrofuran                | 109-99-9   | 72.10    | 0.400        | 1.18          | 1.69           | 5.00            |           | 2        | WG1314190 |
| Toluene                        | 108-88-3   | 92.10    | 0.400        | 1.51          | 4.83           | 18.2            |           | 2        | WG1314190 |
| 1,2,4-Trichlorobenzene         | 120-82-1   | 181      | 1.26         | 9.33          | ND             | ND              |           | 2        | WG1314190 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

ACCOUNT:

ATC Group Services - Novi, MI

PROJECT:

NPJBD19002

SDG:

L1119489

DATE/TIME:

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Collected date/time: 07/15/19 17:05

L1119489

## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                    | CAS #     | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch                     |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|---------------------------|
| 1,1,1-Trichloroethane      | 71-55-6   | 133      | 0.400        | 2.18          | 1.49           | 8.13            |           | 2        | <a href="#">WG1314190</a> |
| 1,1,2-Trichloroethane      | 79-00-5   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Trichloroethylene          | 79-01-6   | 131      | 0.400        | 2.14          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| 1,2,4-Trimethylbenzene     | 95-63-6   | 120      | 0.400        | 1.96          | 3.37           | 16.6            |           | 2        | <a href="#">WG1314190</a> |
| 1,3,5-Trimethylbenzene     | 108-67-8  | 120      | 0.400        | 1.96          | 0.836          | 4.10            |           | 2        | <a href="#">WG1314190</a> |
| 2,2,4-Trimethylpentane     | 540-84-1  | 114.22   | 0.400        | 1.87          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Vinyl chloride             | 75-01-4   | 62.50    | 0.400        | 1.02          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Vinyl Bromide              | 593-60-2  | 106.95   | 0.400        | 1.75          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Vinyl acetate              | 108-05-4  | 86.10    | 0.400        | 1.41          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| m&p-Xylene                 | 1330-20-7 | 106      | 0.800        | 3.47          | 6.88           | 29.8            |           | 2        | <a href="#">WG1314190</a> |
| o-Xylene                   | 95-47-6   | 106      | 0.400        | 1.73          | 2.48           | 10.7            |           | 2        | <a href="#">WG1314190</a> |
| TPH (GC/MS) Low Fraction   | 8006-61-9 | 101      | 100          | 413           | 184            | 760             | <u>B</u>  | 2        | <a href="#">WG1314190</a> |
| 1,1-Difluoroethane         | 75-37-6   | 66.05    | 0.400        | 1.08          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| 1,2,3-Trimethylbenzene     | 526-73-8  | 120.10   | 0.400        | 1.96          | 0.796          | 3.91            |           | 2        | <a href="#">WG1314190</a> |
| Chlorodifluoromethane      | 75-45-6   | 86.50    | 0.400        | 1.42          | 1.88           | 6.64            |           | 2        | <a href="#">WG1314190</a> |
| Dicyclopentadiene          | 77-73-6   | 132.20   | 0.400        | 2.16          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Ethyl acetate              | 141-78-6  | 88       | 0.400        | 1.44          | 0.553          | 1.99            |           | 2        | <a href="#">WG1314190</a> |
| Methyl Cyclohexane         | 108-87-2  | 98.1860  | 0.400        | 1.61          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Tert-Amyl Ethyl Ether      | 919-94-8  | 116.20   | 0.400        | 1.90          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 98.3           |                 |           |          | <a href="#">WG1314190</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 07/15/19 17:15

L1119489

## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                        | CAS #      | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch     |
|--------------------------------|------------|----------|--------------|---------------|----------------|-----------------|-----------|----------|-----------|
| Acetone                        | 67-64-1    | 58.10    | 2.50         | 5.94          | 12.9           | 30.7            |           | 2        | WG1314190 |
| Allyl chloride                 | 107-05-1   | 76.53    | 0.400        | 1.25          | ND             | ND              |           | 2        | WG1314190 |
| Benzene                        | 71-43-2    | 78.10    | 0.400        | 1.28          | 3.72           | 11.9            |           | 2        | WG1314190 |
| Benzyl Chloride                | 100-44-7   | 127      | 0.400        | 2.08          | ND             | ND              |           | 2        | WG1314190 |
| Bromodichloromethane           | 75-27-4    | 164      | 0.400        | 2.68          | ND             | ND              |           | 2        | WG1314190 |
| Bromoform                      | 75-25-2    | 253      | 1.20         | 12.4          | ND             | ND              |           | 2        | WG1314190 |
| Bromomethane                   | 74-83-9    | 94.90    | 0.400        | 1.55          | ND             | ND              |           | 2        | WG1314190 |
| 1,3-Butadiene                  | 106-99-0   | 54.10    | 4.00         | 8.85          | ND             | ND              |           | 2        | WG1314190 |
| Carbon disulfide               | 75-15-0    | 76.10    | 0.400        | 1.24          | 33.6           | 104             |           | 2        | WG1314190 |
| Carbon tetrachloride           | 56-23-5    | 154      | 0.400        | 2.52          | ND             | ND              |           | 2        | WG1314190 |
| Chlorobenzene                  | 108-90-7   | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1314190 |
| Chloroethane                   | 75-00-3    | 64.50    | 0.400        | 1.06          | 0.659          | 1.74            |           | 2        | WG1314190 |
| Chloroform                     | 67-66-3    | 119      | 0.400        | 1.95          | 1.70           | 8.28            |           | 2        | WG1314190 |
| Chloromethane                  | 74-87-3    | 50.50    | 0.400        | 0.826         | ND             | ND              |           | 2        | WG1314190 |
| 2-Chlorotoluene                | 95-49-8    | 126      | 0.400        | 2.06          | ND             | ND              |           | 2        | WG1314190 |
| Cyclohexane                    | 110-82-7   | 84.20    | 0.400        | 1.38          | 1.76           | 6.06            |           | 2        | WG1314190 |
| Dibromochloromethane           | 124-48-1   | 208      | 0.400        | 3.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dibromoethane              | 106-93-4   | 188      | 0.400        | 3.08          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichlorobenzene            | 95-50-1    | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,3-Dichlorobenzene            | 541-73-1   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,4-Dichlorobenzene            | 106-46-7   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichloroethane             | 107-06-2   | 99       | 0.400        | 1.62          | ND             | ND              |           | 2        | WG1314190 |
| 1,1-Dichloroethane             | 75-34-3    | 98       | 0.400        | 1.60          | 0.458          | 1.84            |           | 2        | WG1314190 |
| 1,1-Dichloroethene             | 75-35-4    | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.90    | 0.400        | 1.59          | 0.400          | ND              |           | 2        | WG1314190 |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichloropropane            | 78-87-5    | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1314190 |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314190 |
| trans-1,3-Dichloropropene      | 10061-02-6 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314190 |
| 1,4-Dioxane                    | 123-91-1   | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314190 |
| Ethanol                        | 64-17-5    | 46.10    | 50.4         | 95.0          | 3250           | 6120            |           | 80       | WG1314791 |
| Ethylbenzene                   | 100-41-4   | 106      | 0.400        | 1.73          | 1.94           | 8.43            |           | 2        | WG1314190 |
| 4-Ethyltoluene                 | 622-96-8   | 120      | 0.400        | 1.96          | 0.824          | 4.05            |           | 2        | WG1314190 |
| Trichlorofluoromethane         | 75-69-4    | 137.40   | 16.0         | 89.9          | 164            | 919             |           | 80       | WG1314791 |
| Dichlorodifluoromethane        | 75-71-8    | 120.92   | 0.400        | 1.98          | 21.6           | 107             |           | 2        | WG1314190 |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.40   | 0.400        | 3.07          | 0.455          | 3.49            |           | 2        | WG1314190 |
| 1,2-Dichlorotetrafluoroethane  | 76-14-2    | 171      | 0.400        | 2.80          | ND             | ND              |           | 2        | WG1314190 |
| Heptane                        | 142-82-5   | 100      | 0.400        | 1.64          | 2.39           | 9.78            |           | 2        | WG1314190 |
| Hexachloro-1,3-butadiene       | 87-68-3    | 261      | 1.26         | 13.5          | ND             | ND              |           | 2        | WG1314190 |
| n-Hexane                       | 110-54-3   | 86.20    | 0.400        | 1.41          | 4.04           | 14.3            |           | 2        | WG1314190 |
| Isopropylbenzene               | 98-82-8    | 120.20   | 0.400        | 1.97          | ND             | ND              |           | 2        | WG1314190 |
| Methylene Chloride             | 75-09-2    | 84.90    | 0.400        | 1.39          | 1.15           | 3.99            | B         | 2        | WG1314190 |
| Methyl Butyl Ketone            | 591-78-6   | 100      | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314190 |
| 2-Butanone (MEK)               | 78-93-3    | 72.10    | 2.50         | 7.37          | ND             | ND              |           | 2        | WG1314190 |
| 4-Methyl-2-pentanone (MIBK)    | 108-10-1   | 100.10   | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314190 |
| Methyl methacrylate            | 80-62-6    | 100.12   | 0.400        | 1.64          | 0.713          | 2.92            |           | 2        | WG1314190 |
| MTBE                           | 1634-04-4  | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314190 |
| Naphthalene                    | 91-20-3    | 128      | 1.26         | 6.60          | ND             | ND              |           | 2        | WG1314190 |
| 2-Propanol                     | 67-63-0    | 60.10    | 2.50         | 6.15          | ND             | ND              |           | 2        | WG1314190 |
| Propene                        | 115-07-1   | 42.10    | 0.800        | 1.38          | 56.3           | 97.0            |           | 2        | WG1314190 |
| Styrene                        | 100-42-5   | 104      | 0.400        | 1.70          | 1.54           | 6.54            |           | 2        | WG1314190 |
| 1,1,2,2-Tetrachloroethane      | 79-34-5    | 168      | 0.400        | 2.75          | ND             | ND              |           | 2        | WG1314190 |
| Tetrachloroethylene            | 127-18-4   | 166      | 0.400        | 2.72          | 4.39           | 29.8            |           | 2        | WG1314190 |
| Tetrahydrofuran                | 109-99-9   | 72.10    | 0.400        | 1.18          | ND             | ND              |           | 2        | WG1314190 |
| Toluene                        | 108-88-3   | 92.10    | 0.400        | 1.51          | 10.6           | 40.1            |           | 2        | WG1314190 |
| 1,2,4-Trichlorobenzene         | 120-82-1   | 181      | 1.26         | 9.33          | ND             | ND              |           | 2        | WG1314190 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

ACCOUNT:

ATC Group Services - Novi, MI

PROJECT:

NPJBD19002

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L1119489

## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                    | CAS #     | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch                     |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|---------------------------|
| 1,1,1-Trichloroethane      | 71-55-6   | 133      | 0.400        | 2.18          | 0.946          | 5.15            |           | 2        | <a href="#">WG1314190</a> |
| 1,1,2-Trichloroethane      | 79-00-5   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Trichloroethylene          | 79-01-6   | 131      | 0.400        | 2.14          | 29.3           | 157             |           | 2        | <a href="#">WG1314190</a> |
| 1,2,4-Trimethylbenzene     | 95-63-6   | 120      | 0.400        | 1.96          | 4.65           | 22.8            |           | 2        | <a href="#">WG1314190</a> |
| 1,3,5-Trimethylbenzene     | 108-67-8  | 120      | 0.400        | 1.96          | 1.90           | 9.35            |           | 2        | <a href="#">WG1314190</a> |
| 2,2,4-Trimethylpentane     | 540-84-1  | 114.22   | 0.400        | 1.87          | 7.48           | 35.0            |           | 2        | <a href="#">WG1314190</a> |
| Vinyl chloride             | 75-01-4   | 62.50    | 0.400        | 1.02          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Vinyl Bromide              | 593-60-2  | 106.95   | 0.400        | 1.75          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Vinyl acetate              | 108-05-4  | 86.10    | 0.400        | 1.41          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| m&p-Xylene                 | 1330-20-7 | 106      | 0.800        | 3.47          | 8.35           | 36.2            |           | 2        | <a href="#">WG1314190</a> |
| o-Xylene                   | 95-47-6   | 106      | 0.400        | 1.73          | 3.63           | 15.7            |           | 2        | <a href="#">WG1314190</a> |
| TPH (GC/MS) Low Fraction   | 8006-61-9 | 101      | 100          | 413           | 540            | 2230            |           | 2        | <a href="#">WG1314190</a> |
| 1,1-Difluoroethane         | 75-37-6   | 66.05    | 0.400        | 1.08          | 1.21           | 3.28            |           | 2        | <a href="#">WG1314190</a> |
| 1,2,3-Trimethylbenzene     | 526-73-8  | 120.10   | 0.400        | 1.96          | 1.37           | 6.72            |           | 2        | <a href="#">WG1314190</a> |
| Chlorodifluoromethane      | 75-45-6   | 86.50    | 0.400        | 1.42          | 19.9           | 70.3            |           | 2        | <a href="#">WG1314190</a> |
| Dicyclopentadiene          | 77-73-6   | 132.20   | 0.400        | 2.16          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Ethyl acetate              | 141-78-6  | 88       | 0.400        | 1.44          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| Methyl Cyclohexane         | 108-87-2  | 98.1860  | 0.400        | 1.61          | 3.73           | 15.0            |           | 2        | <a href="#">WG1314190</a> |
| Tert-Amyl Ethyl Ether      | 919-94-8  | 116.20   | 0.400        | 1.90          | ND             | ND              |           | 2        | <a href="#">WG1314190</a> |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 99.0           |                 |           |          | <a href="#">WG1314190</a> |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 101            |                 |           |          | <a href="#">WG1314791</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 07/15/19 16:34

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## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                        | CAS #      | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch     |
|--------------------------------|------------|----------|--------------|---------------|----------------|-----------------|-----------|----------|-----------|
| Acetone                        | 67-64-1    | 58.10    | 2.50         | 5.94          | 9.46           | 22.5            |           | 2        | WG1314190 |
| Allyl chloride                 | 107-05-1   | 76.53    | 0.400        | 1.25          | ND             | ND              |           | 2        | WG1314190 |
| Benzene                        | 71-43-2    | 78.10    | 0.400        | 1.28          | 0.699          | 2.23            |           | 2        | WG1314190 |
| Benzyl Chloride                | 100-44-7   | 127      | 0.400        | 2.08          | ND             | ND              |           | 2        | WG1314190 |
| Bromodichloromethane           | 75-27-4    | 164      | 0.400        | 2.68          | ND             | ND              |           | 2        | WG1314190 |
| Bromoform                      | 75-25-2    | 253      | 1.20         | 12.4          | ND             | ND              |           | 2        | WG1314190 |
| Bromomethane                   | 74-83-9    | 94.90    | 0.400        | 1.55          | ND             | ND              |           | 2        | WG1314190 |
| 1,3-Butadiene                  | 106-99-0   | 54.10    | 4.00         | 8.85          | ND             | ND              |           | 2        | WG1314190 |
| Carbon disulfide               | 75-15-0    | 76.10    | 0.400        | 1.24          | ND             | ND              |           | 2        | WG1314190 |
| Carbon tetrachloride           | 56-23-5    | 154      | 0.400        | 2.52          | ND             | ND              |           | 2        | WG1314190 |
| Chlorobenzene                  | 108-90-7   | 113      | 0.400        | 1.85          | 1.01           | 4.69            |           | 2        | WG1314190 |
| Chloroethane                   | 75-00-3    | 64.50    | 0.400        | 1.06          | ND             | ND              |           | 2        | WG1314190 |
| Chloroform                     | 67-66-3    | 119      | 0.400        | 1.95          | ND             | ND              |           | 2        | WG1314190 |
| Chloromethane                  | 74-87-3    | 50.50    | 0.400        | 0.826         | ND             | ND              |           | 2        | WG1314190 |
| 2-Chlorotoluene                | 95-49-8    | 126      | 0.400        | 2.06          | ND             | ND              |           | 2        | WG1314190 |
| Cyclohexane                    | 110-82-7   | 84.20    | 0.400        | 1.38          | ND             | ND              |           | 2        | WG1314190 |
| Dibromochloromethane           | 124-48-1   | 208      | 0.400        | 3.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dibromoethane              | 106-93-4   | 188      | 0.400        | 3.08          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichlorobenzene            | 95-50-1    | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,3-Dichlorobenzene            | 541-73-1   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,4-Dichlorobenzene            | 106-46-7   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichloroethane             | 107-06-2   | 99       | 0.400        | 1.62          | ND             | ND              |           | 2        | WG1314190 |
| 1,1-Dichloroethane             | 75-34-3    | 98       | 0.400        | 1.60          | ND             | ND              |           | 2        | WG1314190 |
| 1,1-Dichloroethene             | 75-35-4    | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichloropropane            | 78-87-5    | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1314190 |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314190 |
| trans-1,3-Dichloropropene      | 10061-02-6 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314190 |
| 1,4-Dioxane                    | 123-91-1   | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314190 |
| Ethanol                        | 64-17-5    | 46.10    | 15.8         | 29.8          | 21.1           | 39.7            |           | 25       | WG1314791 |
| Ethylbenzene                   | 100-41-4   | 106      | 0.400        | 1.73          | 1.13           | 4.90            |           | 2        | WG1314190 |
| 4-Ethyltoluene                 | 622-96-8   | 120      | 0.400        | 1.96          | 0.580          | 2.85            |           | 2        | WG1314190 |
| Trichlorofluoromethane         | 75-69-4    | 137.40   | 5.00         | 28.1          | 204            | 1150            |           | 25       | WG1314791 |
| Dichlorodifluoromethane        | 75-71-8    | 120.92   | 5.00         | 24.7          | 227            | 1130            |           | 25       | WG1314791 |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.40   | 0.400        | 3.07          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichlorotetrafluoroethane  | 76-14-2    | 171      | 0.400        | 2.80          | ND             | ND              |           | 2        | WG1314190 |
| Heptane                        | 142-82-5   | 100      | 0.400        | 1.64          | 0.450          | 1.84            |           | 2        | WG1314190 |
| Hexachloro-1,3-butadiene       | 87-68-3    | 261      | 1.26         | 13.5          | ND             | ND              |           | 2        | WG1314190 |
| n-Hexane                       | 110-54-3   | 86.20    | 0.400        | 1.41          | 0.686          | 2.42            |           | 2        | WG1314190 |
| Isopropylbenzene               | 98-82-8    | 120.20   | 0.400        | 1.97          | ND             | ND              |           | 2        | WG1314190 |
| Methylene Chloride             | 75-09-2    | 84.90    | 0.400        | 1.39          | 1.11           | 3.85            | B         | 2        | WG1314190 |
| Methyl Butyl Ketone            | 591-78-6   | 100      | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314190 |
| 2-Butanone (MEK)               | 78-93-3    | 72.10    | 2.50         | 7.37          | ND             | ND              |           | 2        | WG1314190 |
| 4-Methyl-2-pentanone (MIBK)    | 108-10-1   | 100.10   | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314190 |
| Methyl methacrylate            | 80-62-6    | 100.12   | 0.400        | 1.64          | 0.486          | 1.99            |           | 2        | WG1314190 |
| MTBE                           | 1634-04-4  | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314190 |
| Naphthalene                    | 91-20-3    | 128      | 1.26         | 6.60          | ND             | ND              |           | 2        | WG1314190 |
| 2-Propanol                     | 67-63-0    | 60.10    | 2.50         | 6.15          | ND             | ND              |           | 2        | WG1314190 |
| Propene                        | 115-07-1   | 42.10    | 0.800        | 1.38          | ND             | ND              |           | 2        | WG1314190 |
| Styrene                        | 100-42-5   | 104      | 0.400        | 1.70          | 0.957          | 4.07            |           | 2        | WG1314190 |
| 1,1,2,2-Tetrachloroethane      | 79-34-5    | 168      | 0.400        | 2.75          | ND             | ND              |           | 2        | WG1314190 |
| Tetrachloroethylene            | 127-18-4   | 166      | 0.400        | 2.72          | 2.75           | 18.7            |           | 2        | WG1314190 |
| Tetrahydrofuran                | 109-99-9   | 72.10    | 0.400        | 1.18          | 0.573          | 1.69            |           | 2        | WG1314190 |
| Toluene                        | 108-88-3   | 92.10    | 0.400        | 1.51          | 3.57           | 13.5            |           | 2        | WG1314190 |
| 1,2,4-Trichlorobenzene         | 120-82-1   | 181      | 1.26         | 9.33          | ND             | ND              |           | 2        | WG1314190 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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ATC Group Services - Novi, MI

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## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                    | CAS #     | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch     |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|-----------|
| 1,1,1-Trichloroethane      | 71-55-6   | 133      | 0.400        | 2.18          | 0.626          | 3.40            |           | 2        | WG1314190 |
| 1,1,2-Trichloroethane      | 79-00-5   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | WG1314190 |
| Trichloroethylene          | 79-01-6   | 131      | 0.400        | 2.14          | ND             | ND              |           | 2        | WG1314190 |
| 1,2,4-Trimethylbenzene     | 95-63-6   | 120      | 0.400        | 1.96          | 2.51           | 12.3            |           | 2        | WG1314190 |
| 1,3,5-Trimethylbenzene     | 108-67-8  | 120      | 0.400        | 1.96          | 0.649          | 3.19            |           | 2        | WG1314190 |
| 2,2,4-Trimethylpentane     | 540-84-1  | 114.22   | 0.400        | 1.87          | ND             | ND              |           | 2        | WG1314190 |
| Vinyl chloride             | 75-01-4   | 62.50    | 0.400        | 1.02          | ND             | ND              |           | 2        | WG1314190 |
| Vinyl Bromide              | 593-60-2  | 106.95   | 0.400        | 1.75          | ND             | ND              |           | 2        | WG1314190 |
| Vinyl acetate              | 108-05-4  | 86.10    | 0.400        | 1.41          | ND             | ND              |           | 2        | WG1314190 |
| m&p-Xylene                 | 1330-20-7 | 106      | 0.800        | 3.47          | 5.22           | 22.6            |           | 2        | WG1314190 |
| o-Xylene                   | 95-47-6   | 106      | 0.400        | 1.73          | 2.03           | 8.80            |           | 2        | WG1314190 |
| TPH (GC/MS) Low Fraction   | 8006-61-9 | 101      | 100          | 413           | 219            | 905             | B         | 2        | WG1314190 |
| 1,1-Difluoroethane         | 75-37-6   | 66.05    | 0.400        | 1.08          | 4.64           | 12.5            |           | 2        | WG1314190 |
| 1,2,3-Trimethylbenzene     | 526-73-8  | 120.10   | 0.400        | 1.96          | 0.601          | 2.95            |           | 2        | WG1314190 |
| Chlorodifluoromethane      | 75-45-6   | 86.50    | 0.400        | 1.42          | ND             | ND              |           | 2        | WG1314190 |
| Dicyclopentadiene          | 77-73-6   | 132.20   | 0.400        | 2.16          | ND             | ND              |           | 2        | WG1314190 |
| Ethyl acetate              | 141-78-6  | 88       | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314190 |
| Methyl Cyclohexane         | 108-87-2  | 98.1860  | 0.400        | 1.61          | ND             | ND              |           | 2        | WG1314190 |
| Tert-Amyl Ethyl Ether      | 919-94-8  | 116.20   | 0.400        | 1.90          | ND             | ND              |           | 2        | WG1314190 |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 98.2           |                 |           |          | WG1314190 |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 115            |                 |           |          | WG1314791 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 07/15/19 16:30

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## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                        | CAS #      | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch     |
|--------------------------------|------------|----------|--------------|---------------|----------------|-----------------|-----------|----------|-----------|
| Acetone                        | 67-64-1    | 58.10    | 2.50         | 5.94          | 5.16           | 12.3            |           | 2        | WG1314190 |
| Allyl chloride                 | 107-05-1   | 76.53    | 0.400        | 1.25          | ND             | ND              |           | 2        | WG1314190 |
| Benzene                        | 71-43-2    | 78.10    | 0.400        | 1.28          | 0.570          | 1.82            |           | 2        | WG1314190 |
| Benzyl Chloride                | 100-44-7   | 127      | 0.400        | 2.08          | ND             | ND              |           | 2        | WG1314190 |
| Bromodichloromethane           | 75-27-4    | 164      | 0.400        | 2.68          | ND             | ND              |           | 2        | WG1314190 |
| Bromoform                      | 75-25-2    | 253      | 1.20         | 12.4          | ND             | ND              |           | 2        | WG1314190 |
| Bromomethane                   | 74-83-9    | 94.90    | 0.400        | 1.55          | ND             | ND              |           | 2        | WG1314190 |
| 1,3-Butadiene                  | 106-99-0   | 54.10    | 4.00         | 8.85          | ND             | ND              |           | 2        | WG1314190 |
| Carbon disulfide               | 75-15-0    | 76.10    | 0.400        | 1.24          | 8.08           | 25.1            |           | 2        | WG1314190 |
| Carbon tetrachloride           | 56-23-5    | 154      | 0.400        | 2.52          | ND             | ND              |           | 2        | WG1314190 |
| Chlorobenzene                  | 108-90-7   | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1314190 |
| Chloroethane                   | 75-00-3    | 64.50    | 0.400        | 1.06          | ND             | ND              |           | 2        | WG1314190 |
| Chloroform                     | 67-66-3    | 119      | 0.400        | 1.95          | 0.932          | 4.54            |           | 2        | WG1314190 |
| Chloromethane                  | 74-87-3    | 50.50    | 0.400        | 0.826         | ND             | ND              |           | 2        | WG1314190 |
| 2-Chlorotoluene                | 95-49-8    | 126      | 0.400        | 2.06          | ND             | ND              |           | 2        | WG1314190 |
| Cyclohexane                    | 110-82-7   | 84.20    | 0.400        | 1.38          | ND             | ND              |           | 2        | WG1314190 |
| Dibromochloromethane           | 124-48-1   | 208      | 0.400        | 3.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dibromoethane              | 106-93-4   | 188      | 0.400        | 3.08          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichlorobenzene            | 95-50-1    | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,3-Dichlorobenzene            | 541-73-1   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,4-Dichlorobenzene            | 106-46-7   | 147      | 0.400        | 2.40          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichloroethane             | 107-06-2   | 99       | 0.400        | 1.62          | ND             | ND              |           | 2        | WG1314190 |
| 1,1-Dichloroethane             | 75-34-3    | 98       | 0.400        | 1.60          | ND             | ND              |           | 2        | WG1314190 |
| 1,1-Dichloroethene             | 75-35-4    | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.90    | 0.400        | 1.59          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichloropropane            | 78-87-5    | 113      | 0.400        | 1.85          | ND             | ND              |           | 2        | WG1314190 |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314190 |
| trans-1,3-Dichloropropene      | 10061-02-6 | 111      | 0.400        | 1.82          | ND             | ND              |           | 2        | WG1314190 |
| 1,4-Dioxane                    | 123-91-1   | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314190 |
| Ethanol                        | 64-17-5    | 46.10    | 126          | 238           | 4370           | 8240            |           | 200      | WG1314791 |
| Ethylbenzene                   | 100-41-4   | 106      | 0.400        | 1.73          | 1.21           | 5.24            |           | 2        | WG1314190 |
| 4-Ethyltoluene                 | 622-96-8   | 120      | 0.400        | 1.96          | 0.586          | 2.88            |           | 2        | WG1314190 |
| Trichlorofluoromethane         | 75-69-4    | 137.40   | 40.0         | 225           | 737            | 4140            |           | 200      | WG1314791 |
| Dichlorodifluoromethane        | 75-71-8    | 120.92   | 0.400        | 1.98          | 21.7           | 107             |           | 2        | WG1314190 |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.40   | 0.400        | 3.07          | ND             | ND              |           | 2        | WG1314190 |
| 1,2-Dichlorotetrafluoroethane  | 76-14-2    | 171      | 0.400        | 2.80          | ND             | ND              |           | 2        | WG1314190 |
| Heptane                        | 142-82-5   | 100      | 0.400        | 1.64          | ND             | ND              |           | 2        | WG1314190 |
| Hexachloro-1,3-butadiene       | 87-68-3    | 261      | 1.26         | 13.5          | ND             | ND              |           | 2        | WG1314190 |
| n-Hexane                       | 110-54-3   | 86.20    | 0.400        | 1.41          | 0.463          | 1.63            |           | 2        | WG1314190 |
| Isopropylbenzene               | 98-82-8    | 120.20   | 0.400        | 1.97          | ND             | ND              |           | 2        | WG1314190 |
| Methylene Chloride             | 75-09-2    | 84.90    | 0.400        | 1.39          | ND             | ND              |           | 2        | WG1314190 |
| Methyl Butyl Ketone            | 591-78-6   | 100      | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314190 |
| 2-Butanone (MEK)               | 78-93-3    | 72.10    | 2.50         | 7.37          | ND             | ND              |           | 2        | WG1314190 |
| 4-Methyl-2-pentanone (MIBK)    | 108-10-1   | 100.10   | 2.50         | 10.2          | ND             | ND              |           | 2        | WG1314190 |
| Methyl methacrylate            | 80-62-6    | 100.12   | 0.400        | 1.64          | 0.454          | 1.86            |           | 2        | WG1314190 |
| MTBE                           | 1634-04-4  | 88.10    | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314190 |
| Naphthalene                    | 91-20-3    | 128      | 1.26         | 6.60          | ND             | ND              |           | 2        | WG1314190 |
| 2-Propanol                     | 67-63-0    | 60.10    | 2.50         | 6.15          | ND             | ND              |           | 2        | WG1314190 |
| Propene                        | 115-07-1   | 42.10    | 0.800        | 1.38          | ND             | ND              |           | 2        | WG1314190 |
| Styrene                        | 100-42-5   | 104      | 0.400        | 1.70          | 0.483          | 2.05            |           | 2        | WG1314190 |
| 1,1,2,2-Tetrachloroethane      | 79-34-5    | 168      | 0.400        | 2.75          | ND             | ND              |           | 2        | WG1314190 |
| Tetrachloroethylene            | 127-18-4   | 166      | 0.400        | 2.72          | 12.0           | 81.8            |           | 2        | WG1314190 |
| Tetrahydrofuran                | 109-99-9   | 72.10    | 0.400        | 1.18          | ND             | ND              |           | 2        | WG1314190 |
| Toluene                        | 108-88-3   | 92.10    | 0.400        | 1.51          | 3.19           | 12.0            |           | 2        | WG1314190 |
| 1,2,4-Trichlorobenzene         | 120-82-1   | 181      | 1.26         | 9.33          | ND             | ND              |           | 2        | WG1314190 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

ACCOUNT:

ATC Group Services - Novi, MI

PROJECT:

NPJBD19002

SDG:

L1119489

DATE/TIME:

07/24/19 08:16

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Collected date/time: 07/15/19 16:30

L1119489

## Volatile Organic Compounds (MS) by Method TO-15

| Analyte                    | CAS #     | Mol. Wt. | RDL1<br>ppbv | RDL2<br>ug/m3 | Result<br>ppbv | Result<br>ug/m3 | Qualifier | Dilution | Batch     |
|----------------------------|-----------|----------|--------------|---------------|----------------|-----------------|-----------|----------|-----------|
| 1,1,1-Trichloroethane      | 71-55-6   | 133      | 0.400        | 2.18          | 1.76           | 9.57            |           | 2        | WG1314190 |
| 1,1,2-Trichloroethane      | 79-00-5   | 133      | 0.400        | 2.18          | ND             | ND              |           | 2        | WG1314190 |
| Trichloroethylene          | 79-01-6   | 131      | 0.400        | 2.14          | 0.594          | 3.18            |           | 2        | WG1314190 |
| 1,2,4-Trimethylbenzene     | 95-63-6   | 120      | 0.400        | 1.96          | 3.06           | 15.0            |           | 2        | WG1314190 |
| 1,3,5-Trimethylbenzene     | 108-67-8  | 120      | 0.400        | 1.96          | 0.790          | 3.88            |           | 2        | WG1314190 |
| 2,2,4-Trimethylpentane     | 540-84-1  | 114.22   | 0.400        | 1.87          | ND             | ND              |           | 2        | WG1314190 |
| Vinyl chloride             | 75-01-4   | 62.50    | 0.400        | 1.02          | ND             | ND              |           | 2        | WG1314190 |
| Vinyl Bromide              | 593-60-2  | 106.95   | 0.400        | 1.75          | ND             | ND              |           | 2        | WG1314190 |
| Vinyl acetate              | 108-05-4  | 86.10    | 0.400        | 1.41          | ND             | ND              |           | 2        | WG1314190 |
| m&p-Xylene                 | 1330-20-7 | 106      | 0.800        | 3.47          | 5.09           | 22.1            |           | 2        | WG1314190 |
| o-Xylene                   | 95-47-6   | 106      | 0.400        | 1.73          | 2.14           | 9.27            |           | 2        | WG1314190 |
| TPH (GC/MS) Low Fraction   | 8006-61-9 | 101      | 100          | 413           | 324            | 1340            | B         | 2        | WG1314190 |
| 1,1-Difluoroethane         | 75-37-6   | 66.05    | 0.400        | 1.08          | 0.752          | 2.03            |           | 2        | WG1314190 |
| 1,2,3-Trimethylbenzene     | 526-73-8  | 120.10   | 0.400        | 1.96          | 0.743          | 3.65            |           | 2        | WG1314190 |
| Chlorodifluoromethane      | 75-45-6   | 86.50    | 0.400        | 1.42          | ND             | ND              |           | 2        | WG1314190 |
| Dicyclopentadiene          | 77-73-6   | 132.20   | 0.400        | 2.16          | ND             | ND              |           | 2        | WG1314190 |
| Ethyl acetate              | 141-78-6  | 88       | 0.400        | 1.44          | ND             | ND              |           | 2        | WG1314190 |
| Methyl Cyclohexane         | 108-87-2  | 98.1860  | 0.400        | 1.61          | 0.405          | 1.63            |           | 2        | WG1314190 |
| Tert-Amyl Ethyl Ether      | 919-94-8  | 116.20   | 0.400        | 1.90          | ND             | ND              |           | 2        | WG1314190 |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 96.9           |                 |           |          | WG1314190 |
| (S) 1,4-Bromofluorobenzene | 460-00-4  | 175      | 60.0-140     |               | 101            |                 |           |          | WG1314791 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Method Blank (MB)

(MB) R3432440-3 07/19/19 10:35

| Analyte                        | MB Result<br>ppbv | MB Qualifier | MB MDL<br>ppbv | MB RDL<br>ppbv |
|--------------------------------|-------------------|--------------|----------------|----------------|
| Acetone                        | 0.0884            | U            | 0.0569         | 1.25           |
| Allyl Chloride                 | U                 |              | 0.0546         | 0.200          |
| Benzene                        | U                 |              | 0.0460         | 0.200          |
| Benzyl Chloride                | 0.158             | U            | 0.0598         | 0.200          |
| Bromodichloromethane           | U                 |              | 0.0436         | 0.200          |
| Bromoform                      | U                 |              | 0.0786         | 0.600          |
| Bromomethane                   | U                 |              | 0.0609         | 0.200          |
| 1,3-Butadiene                  | U                 |              | 0.0563         | 2.00           |
| Carbon disulfide               | U                 |              | 0.0544         | 0.200          |
| Carbon tetrachloride           | U                 |              | 0.0585         | 0.200          |
| Chlorobenzene                  | U                 |              | 0.0601         | 0.200          |
| Chloroethane                   | U                 |              | 0.0489         | 0.200          |
| Chloroform                     | U                 |              | 0.0574         | 0.200          |
| Chloromethane                  | U                 |              | 0.0544         | 0.200          |
| 2-Chlorotoluene                | U                 |              | 0.0605         | 0.200          |
| Cyclohexane                    | U                 |              | 0.0534         | 0.200          |
| Dibromochloromethane           | U                 |              | 0.0494         | 0.200          |
| 1,2-Dibromoethane              | U                 |              | 0.0185         | 0.200          |
| 1,2-Dichlorobenzene            | 0.107             | U            | 0.0603         | 0.200          |
| 1,3-Dichlorobenzene            | 0.139             | U            | 0.0597         | 0.200          |
| 1,4-Dichlorobenzene            | 0.175             | U            | 0.0557         | 0.200          |
| 1,2-Dichloroethane             | U                 |              | 0.0616         | 0.200          |
| 1,1-Dichloroethane             | U                 |              | 0.0514         | 0.200          |
| 1,1-Dichloroethene             | U                 |              | 0.0490         | 0.200          |
| cis-1,2-Dichloroethene         | U                 |              | 0.0389         | 0.200          |
| trans-1,2-Dichloroethene       | U                 |              | 0.0464         | 0.200          |
| 1,2-Dichloropropane            | U                 |              | 0.0599         | 0.200          |
| cis-1,3-Dichloropropene        | U                 |              | 0.0588         | 0.200          |
| trans-1,3-Dichloropropene      | U                 |              | 0.0435         | 0.200          |
| 1,4-Dioxane                    | 0.0742            | U            | 0.0554         | 0.200          |
| Ethylbenzene                   | U                 |              | 0.0506         | 0.200          |
| 4-Ethyltoluene                 | U                 |              | 0.0666         | 0.200          |
| Trichlorofluoromethane         | U                 |              | 0.0673         | 0.200          |
| Dichlorodifluoromethane        | U                 |              | 0.0601         | 0.200          |
| 1,1,2-Trichlorotrifluoroethane | U                 |              | 0.0687         | 0.200          |
| 1,2-Dichlorotetrafluoroethane  | U                 |              | 0.0458         | 0.200          |
| Heptane                        | U                 |              | 0.0626         | 0.200          |
| Hexachloro-1,3-butadiene       | U                 |              | 0.0656         | 0.630          |
| n-Hexane                       | U                 |              | 0.0457         | 0.200          |
| Isopropylbenzene               | U                 |              | 0.0563         | 0.200          |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3432440-3 07/19/19 10:35

| Analyte                     | MB Result<br>ppbv | MB Qualifier | MB MDL<br>ppbv | MB RDL<br>ppbv |
|-----------------------------|-------------------|--------------|----------------|----------------|
| Methylene Chloride          | 0.0603            | U            | 0.0465         | 0.200          |
| Methyl Butyl Ketone         | 0.104             | U            | 0.0682         | 1.25           |
| 2-Butanone (MEK)            | U                 |              | 0.0493         | 1.25           |
| 4-Methyl-2-pentanone (MIBK) | U                 |              | 0.0650         | 1.25           |
| Methyl Methacrylate         | U                 |              | 0.0773         | 0.200          |
| MTBE                        | U                 |              | 0.0505         | 0.200          |
| Naphthalene                 | 0.272             | U            | 0.154          | 0.630          |
| 2-Propanol                  | U                 |              | 0.0882         | 1.25           |
| Propene                     | 0.121             | U            | 0.0932         | 0.400          |
| Styrene                     | U                 |              | 0.0465         | 0.200          |
| 1,1,2,2-Tetrachloroethane   | U                 |              | 0.0576         | 0.200          |
| Tetrachloroethylene         | U                 |              | 0.0497         | 0.200          |
| Tetrahydrofuran             | U                 |              | 0.0508         | 0.200          |
| Toluene                     | U                 |              | 0.0499         | 0.200          |
| 1,2,4-Trichlorobenzene      | 0.363             | U            | 0.148          | 0.630          |
| 1,1,1-Trichloroethane       | U                 |              | 0.0665         | 0.200          |
| 1,1,2-Trichloroethane       | U                 |              | 0.0287         | 0.200          |
| Trichloroethylene           | U                 |              | 0.0545         | 0.200          |
| 1,2,4-Trimethylbenzene      | U                 |              | 0.0483         | 0.200          |
| 1,3,5-Trimethylbenzene      | U                 |              | 0.0631         | 0.200          |
| 2,2,4-Trimethylpentane      | U                 |              | 0.0456         | 0.200          |
| Vinyl chloride              | U                 |              | 0.0457         | 0.200          |
| Vinyl Bromide               | U                 |              | 0.0727         | 0.200          |
| Vinyl acetate               | U                 |              | 0.0639         | 0.200          |
| m&p-Xylene                  | U                 |              | 0.0946         | 0.400          |
| o-Xylene                    | U                 |              | 0.0633         | 0.200          |
| Ethanol                     | 0.249             | U            | 0.0832         | 0.630          |
| TPH (GC/MS) Low Fraction    | 23.5              | U            | 6.91           | 50.0           |
| 1,1-Difluoroethane          | U                 |              | 0.0325         | 0.200          |
| 1,2,3-Trimethylbenzene      | U                 |              | 0.0325         | 0.200          |
| Chlorodifluoromethane       | U                 |              | 0.0325         | 0.200          |
| Dicyclopentadiene           | U                 |              | 0.0325         | 0.200          |
| Ethyl acetate               | U                 |              | 0.0325         | 0.200          |
| Methyl Cyclohexane          | U                 |              | 0.0325         | 0.200          |
| Tert-Amyl Ethyl Ether       | U                 |              | 0.0325         | 0.200          |
| (S) 1,4-Bromofluorobenzene  | 99.4              |              |                | 60.0-140       |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3432440-1 07/19/19 09:08 • (LCSD) R3432440-2 07/19/19 09:51

| Analyte                        | Spike Amount<br>ppbv | LCS Result<br>ppbv | LCSD Result<br>ppbv | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD<br>% | RPD Limits<br>% |
|--------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Ethanol                        | 3.75                 | 3.46               | 3.44                | 92.3          | 91.7           | 55.0-148         |                      |                       | 0.630    | 25              |
| Propene                        | 3.75                 | 3.54               | 3.38                | 94.4          | 90.2           | 64.0-144         |                      |                       | 4.51     | 25              |
| Dichlorodifluoromethane        | 3.75                 | 3.94               | 3.86                | 105           | 103            | 64.0-139         |                      |                       | 2.08     | 25              |
| 1,2-Dichlorotetrafluoroethane  | 3.75                 | 3.97               | 3.87                | 106           | 103            | 70.0-130         |                      |                       | 2.54     | 25              |
| Chloromethane                  | 3.75                 | 3.94               | 3.81                | 105           | 102            | 70.0-130         |                      |                       | 3.29     | 25              |
| Vinyl chloride                 | 3.75                 | 3.85               | 3.86                | 103           | 103            | 70.0-130         |                      |                       | 0.222    | 25              |
| 1,3-Butadiene                  | 3.75                 | 3.90               | 3.85                | 104           | 103            | 70.0-130         |                      |                       | 1.20     | 25              |
| Bromomethane                   | 3.75                 | 3.87               | 3.84                | 103           | 102            | 70.0-130         |                      |                       | 0.721    | 25              |
| Chloroethane                   | 3.75                 | 3.95               | 3.80                | 105           | 101            | 70.0-130         |                      |                       | 3.87     | 25              |
| Trichlorofluoromethane         | 3.75                 | 3.86               | 3.82                | 103           | 102            | 70.0-130         |                      |                       | 0.921    | 25              |
| 1,1,2-Trichlorotrifluoroethane | 3.75                 | 3.92               | 3.85                | 105           | 103            | 70.0-130         |                      |                       | 1.80     | 25              |
| 1,1-Dichloroethene             | 3.75                 | 3.85               | 3.80                | 103           | 101            | 70.0-130         |                      |                       | 1.39     | 25              |
| 1,1-Dichloroethane             | 3.75                 | 3.85               | 3.83                | 103           | 102            | 70.0-130         |                      |                       | 0.560    | 25              |
| Acetone                        | 3.75                 | 3.74               | 3.70                | 99.8          | 98.7           | 70.0-130         |                      |                       | 1.04     | 25              |
| 2-Propanol                     | 3.75                 | 3.83               | 3.84                | 102           | 102            | 70.0-139         |                      |                       | 0.409    | 25              |
| Carbon disulfide               | 3.75                 | 3.88               | 3.85                | 103           | 103            | 70.0-130         |                      |                       | 0.794    | 25              |
| Methylene Chloride             | 3.75                 | 3.65               | 3.55                | 97.3          | 94.8           | 70.0-130         |                      |                       | 2.60     | 25              |
| MTBE                           | 3.75                 | 3.85               | 3.81                | 103           | 102            | 70.0-130         |                      |                       | 0.991    | 25              |
| trans-1,2-Dichloroethene       | 3.75                 | 3.88               | 3.83                | 103           | 102            | 70.0-130         |                      |                       | 1.39     | 25              |
| n-Hexane                       | 3.75                 | 3.85               | 3.80                | 103           | 101            | 70.0-130         |                      |                       | 1.46     | 25              |
| Vinyl acetate                  | 3.75                 | 3.27               | 3.35                | 87.1          | 89.4           | 70.0-130         |                      |                       | 2.65     | 25              |
| Methyl Ethyl Ketone            | 3.75                 | 3.93               | 3.95                | 105           | 105            | 70.0-130         |                      |                       | 0.486    | 25              |
| cis-1,2-Dichloroethene         | 3.75                 | 3.86               | 3.88                | 103           | 103            | 70.0-130         |                      |                       | 0.563    | 25              |
| Chloroform                     | 3.75                 | 3.86               | 3.90                | 103           | 104            | 70.0-130         |                      |                       | 1.05     | 25              |
| Cyclohexane                    | 3.75                 | 3.88               | 3.87                | 103           | 103            | 70.0-130         |                      |                       | 0.339    | 25              |
| 1,1,1-Trichloroethane          | 3.75                 | 3.87               | 3.87                | 103           | 103            | 70.0-130         |                      |                       | 0.188    | 25              |
| Carbon tetrachloride           | 3.75                 | 3.90               | 3.88                | 104           | 103            | 70.0-130         |                      |                       | 0.388    | 25              |
| Benzene                        | 3.75                 | 3.90               | 3.91                | 104           | 104            | 70.0-130         |                      |                       | 0.206    | 25              |
| 1,2-Dichloroethane             | 3.75                 | 3.87               | 3.95                | 103           | 105            | 70.0-130         |                      |                       | 2.07     | 25              |
| Heptane                        | 3.75                 | 3.91               | 3.90                | 104           | 104            | 70.0-130         |                      |                       | 0.286    | 25              |
| Trichloroethylene              | 3.75                 | 4.00               | 4.00                | 107           | 107            | 70.0-130         |                      |                       | 0.143    | 25              |
| 1,2-Dichloropropane            | 3.75                 | 3.92               | 3.92                | 105           | 105            | 70.0-130         |                      |                       | 0.0638   | 25              |
| 1,4-Dioxane                    | 3.75                 | 3.78               | 3.85                | 101           | 103            | 70.0-140         |                      |                       | 1.85     | 25              |
| Bromodichloromethane           | 3.75                 | 3.95               | 3.93                | 105           | 105            | 70.0-130         |                      |                       | 0.369    | 25              |
| cis-1,3-Dichloropropene        | 3.75                 | 3.94               | 3.94                | 105           | 105            | 70.0-130         |                      |                       | 0.104    | 25              |
| 4-Methyl-2-pentanone (MIBK)    | 3.75                 | 3.89               | 4.00                | 104           | 107            | 70.0-139         |                      |                       | 2.92     | 25              |
| Toluene                        | 3.75                 | 3.87               | 3.95                | 103           | 105            | 70.0-130         |                      |                       | 2.20     | 25              |
| trans-1,3-Dichloropropene      | 3.75                 | 3.96               | 3.96                | 105           | 106            | 70.0-130         |                      |                       | 0.111    | 25              |
| 1,1,2-Trichloroethane          | 3.75                 | 3.96               | 4.01                | 106           | 107            | 70.0-130         |                      |                       | 1.20     | 25              |
| Tetrachloroethylene            | 3.75                 | 3.82               | 3.87                | 102           | 103            | 70.0-130         |                      |                       | 1.05     | 25              |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3432440-1 07/19/19 09:08 • (LCSD) R3432440-2 07/19/19 09:51

| Analyte                    | Spike Amount<br>ppbv | LCS Result<br>ppbv | LCSD Result<br>ppbv | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Methyl Butyl Ketone        | 3.75                 | 4.01               | 4.11                | 107           | 109            | 70.0-149         |               |                | 2.29     | 25              |
| Dibromochloromethane       | 3.75                 | 3.96               | 4.04                | 106           | 108            | 70.0-130         |               |                | 2.10     | 25              |
| 1,2-Dibromoethane          | 3.75                 | 4.02               | 4.05                | 107           | 108            | 70.0-130         |               |                | 0.629    | 25              |
| Chlorobenzene              | 3.75                 | 4.00               | 4.07                | 107           | 108            | 70.0-130         |               |                | 1.61     | 25              |
| Ethylbenzene               | 3.75                 | 3.92               | 3.96                | 105           | 106            | 70.0-130         |               |                | 0.975    | 25              |
| m&p-Xylene                 | 7.50                 | 7.90               | 7.89                | 105           | 105            | 70.0-130         |               |                | 0.0475   | 25              |
| o-Xylene                   | 3.75                 | 3.90               | 3.92                | 104           | 105            | 70.0-130         |               |                | 0.472    | 25              |
| Styrene                    | 3.75                 | 4.00               | 4.03                | 107           | 107            | 70.0-130         |               |                | 0.651    | 25              |
| Bromoform                  | 3.75                 | 3.97               | 4.07                | 106           | 109            | 70.0-130         |               |                | 2.58     | 25              |
| 1,1,2,2-Tetrachloroethane  | 3.75                 | 3.76               | 3.80                | 100           | 101            | 70.0-130         |               |                | 1.04     | 25              |
| 4-Ethyltoluene             | 3.75                 | 3.91               | 3.99                | 104           | 106            | 70.0-130         |               |                | 2.06     | 25              |
| 1,3,5-Trimethylbenzene     | 3.75                 | 3.92               | 3.98                | 105           | 106            | 70.0-130         |               |                | 1.48     | 25              |
| 1,2,4-Trimethylbenzene     | 3.75                 | 3.89               | 3.94                | 104           | 105            | 70.0-130         |               |                | 1.32     | 25              |
| 1,3-Dichlorobenzene        | 3.75                 | 3.97               | 4.06                | 106           | 108            | 70.0-130         |               |                | 2.19     | 25              |
| 1,4-Dichlorobenzene        | 3.75                 | 4.05               | 4.14                | 108           | 110            | 70.0-130         |               |                | 2.18     | 25              |
| Benzyl Chloride            | 3.75                 | 4.20               | 4.22                | 112           | 112            | 70.0-152         |               |                | 0.498    | 25              |
| 1,2-Dichlorobenzene        | 3.75                 | 3.97               | 4.00                | 106           | 107            | 70.0-130         |               |                | 0.711    | 25              |
| 1,2,4-Trichlorobenzene     | 3.75                 | 4.70               | 4.64                | 125           | 124            | 70.0-160         |               |                | 1.18     | 25              |
| Hexachloro-1,3-butadiene   | 3.75                 | 4.13               | 4.19                | 110           | 112            | 70.0-151         |               |                | 1.60     | 25              |
| Naphthalene                | 3.75                 | 4.42               | 4.54                | 118           | 121            | 70.0-159         |               |                | 2.86     | 25              |
| TPH (GC/MS) Low Fraction   | 203                  | 204                | 206                 | 101           | 102            | 70.0-130         |               |                | 1.18     | 25              |
| Allyl Chloride             | 3.75                 | 3.94               | 3.82                | 105           | 102            | 70.0-130         |               |                | 3.03     | 25              |
| 2-Chlorotoluene            | 3.75                 | 3.89               | 3.93                | 104           | 105            | 70.0-130         |               |                | 1.05     | 25              |
| Methyl Methacrylate        | 3.75                 | 3.90               | 3.99                | 104           | 106            | 70.0-130         |               |                | 2.08     | 25              |
| Tetrahydrofuran            | 3.75                 | 3.85               | 3.88                | 103           | 104            | 70.0-137         |               |                | 0.688    | 25              |
| 2,2,4-Trimethylpentane     | 3.75                 | 3.89               | 3.83                | 104           | 102            | 70.0-130         |               |                | 1.76     | 25              |
| Vinyl Bromide              | 3.75                 | 3.84               | 3.82                | 102           | 102            | 70.0-130         |               |                | 0.477    | 25              |
| Isopropylbenzene           | 3.75                 | 3.87               | 3.93                | 103           | 105            | 70.0-130         |               |                | 1.47     | 25              |
| 1,1-Difluoroethane         | 3.75                 | 3.86               | 3.84                | 103           | 102            | 70.0-130         |               |                | 0.523    | 25              |
| 1,2,3-Trimethylbenzene     | 3.75                 | 3.95               | 4.01                | 105           | 107            | 70.0-130         |               |                | 1.72     | 25              |
| Chlorodifluoromethane      | 3.75                 | 3.89               | 3.83                | 104           | 102            | 70.0-130         |               |                | 1.59     | 25              |
| Dicyclopentadiene          | 3.75                 | 3.90               | 4.02                | 104           | 107            | 70.0-130         |               |                | 3.05     | 25              |
| Ethyl acetate              | 3.75                 | 3.90               | 3.91                | 104           | 104            | 70.0-130         |               |                | 0.311    | 25              |
| Methyl Cyclohexane         | 3.75                 | 3.92               | 3.93                | 105           | 105            | 70.0-130         |               |                | 0.255    | 25              |
| Tert-Amyl Ethyl Ether      | 3.75                 | 3.81               | 3.84                | 102           | 102            | 70.0-130         |               |                | 0.774    | 25              |
| (S) 1,4-Bromofluorobenzene |                      |                    |                     | 99.7          | 101            | 60.0-140         |               |                |          |                 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3432460-3 07/19/19 10:16

| Analyte                        | MB Result<br>ppbv | MB Qualifier | MB MDL<br>ppbv | MB RDL<br>ppbv |
|--------------------------------|-------------------|--------------|----------------|----------------|
| Acetone                        | 0.139             | U            | 0.0569         | 1.25           |
| Allyl Chloride                 | U                 |              | 0.0546         | 0.200          |
| Benzene                        | U                 |              | 0.0460         | 0.200          |
| Benzyl Chloride                | U                 |              | 0.0598         | 0.200          |
| Bromodichloromethane           | U                 |              | 0.0436         | 0.200          |
| Bromoform                      | U                 |              | 0.0786         | 0.600          |
| Bromomethane                   | U                 |              | 0.0609         | 0.200          |
| 1,3-Butadiene                  | U                 |              | 0.0563         | 2.00           |
| Carbon disulfide               | U                 |              | 0.0544         | 0.200          |
| Carbon tetrachloride           | U                 |              | 0.0585         | 0.200          |
| Chlorobenzene                  | U                 |              | 0.0601         | 0.200          |
| Chloroethane                   | U                 |              | 0.0489         | 0.200          |
| Chloroform                     | U                 |              | 0.0574         | 0.200          |
| Chloromethane                  | U                 |              | 0.0544         | 0.200          |
| 2-Chlorotoluene                | U                 |              | 0.0605         | 0.200          |
| Cyclohexane                    | U                 |              | 0.0534         | 0.200          |
| Dibromochloromethane           | U                 |              | 0.0494         | 0.200          |
| 1,2-Dibromoethane              | U                 |              | 0.0185         | 0.200          |
| 1,2-Dichlorobenzene            | U                 |              | 0.0603         | 0.200          |
| 1,3-Dichlorobenzene            | U                 |              | 0.0597         | 0.200          |
| 1,4-Dichlorobenzene            | U                 |              | 0.0557         | 0.200          |
| 1,2-Dichloroethane             | U                 |              | 0.0616         | 0.200          |
| 1,1-Dichloroethane             | U                 |              | 0.0514         | 0.200          |
| 1,1-Dichloroethene             | U                 |              | 0.0490         | 0.200          |
| cis-1,2-Dichloroethene         | U                 |              | 0.0389         | 0.200          |
| trans-1,2-Dichloroethene       | U                 |              | 0.0464         | 0.200          |
| 1,2-Dichloropropane            | U                 |              | 0.0599         | 0.200          |
| cis-1,3-Dichloropropene        | U                 |              | 0.0588         | 0.200          |
| trans-1,3-Dichloropropene      | U                 |              | 0.0435         | 0.200          |
| 1,4-Dioxane                    | U                 |              | 0.0554         | 0.200          |
| Ethylbenzene                   | U                 |              | 0.0506         | 0.200          |
| 4-Ethyltoluene                 | U                 |              | 0.0666         | 0.200          |
| Trichlorofluoromethane         | U                 |              | 0.0673         | 0.200          |
| Dichlorodifluoromethane        | U                 |              | 0.0601         | 0.200          |
| 1,1,2-Trichlorotrifluoroethane | U                 |              | 0.0687         | 0.200          |
| 1,2-Dichlorotetrafluoroethane  | U                 |              | 0.0458         | 0.200          |
| Heptane                        | U                 |              | 0.0626         | 0.200          |
| Hexachloro-1,3-butadiene       | U                 |              | 0.0656         | 0.630          |
| n-Hexane                       | U                 |              | 0.0457         | 0.200          |
| Isopropylbenzene               | U                 |              | 0.0563         | 0.200          |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3432460-3 07/19/19 10:16

| Analyte                     | MB Result | MB Qualifier | MB MDL | MB RDL   |
|-----------------------------|-----------|--------------|--------|----------|
|                             | ppbv      |              | ppbv   | ppbv     |
| Methylene Chloride          | U         |              | 0.0465 | 0.200    |
| Methyl Butyl Ketone         | U         |              | 0.0682 | 1.25     |
| 2-Butanone (MEK)            | U         |              | 0.0493 | 1.25     |
| 4-Methyl-2-pentanone (MIBK) | U         |              | 0.0650 | 1.25     |
| Methyl Methacrylate         | U         |              | 0.0773 | 0.200    |
| MTBE                        | U         |              | 0.0505 | 0.200    |
| Naphthalene                 | U         |              | 0.154  | 0.630    |
| 2-Propanol                  | U         |              | 0.0882 | 1.25     |
| Propene                     | U         |              | 0.0932 | 0.400    |
| Styrene                     | U         |              | 0.0465 | 0.200    |
| 1,1,2,2-Tetrachloroethane   | U         |              | 0.0576 | 0.200    |
| Tetrachloroethylene         | U         |              | 0.0497 | 0.200    |
| Tetrahydrofuran             | U         |              | 0.0508 | 0.200    |
| Toluene                     | U         |              | 0.0499 | 0.200    |
| 1,2,4-Trichlorobenzene      | U         |              | 0.148  | 0.630    |
| 1,1,1-Trichloroethane       | U         |              | 0.0665 | 0.200    |
| 1,1,2-Trichloroethane       | U         |              | 0.0287 | 0.200    |
| Trichloroethylene           | U         |              | 0.0545 | 0.200    |
| 1,2,4-Trimethylbenzene      | U         |              | 0.0483 | 0.200    |
| 1,3,5-Trimethylbenzene      | U         |              | 0.0631 | 0.200    |
| 2,2,4-Trimethylpentane      | U         |              | 0.0456 | 0.200    |
| Vinyl chloride              | U         |              | 0.0457 | 0.200    |
| Vinyl Bromide               | U         |              | 0.0727 | 0.200    |
| Vinyl acetate               | U         |              | 0.0639 | 0.200    |
| m&p-Xylene                  | U         |              | 0.0946 | 0.400    |
| o-Xylene                    | U         |              | 0.0633 | 0.200    |
| Ethanol                     | U         |              | 0.0832 | 0.630    |
| TPH (GC/MS) Low Fraction    | U         |              | 6.91   | 50.0     |
| 1,1-Difluoroethane          | U         |              | 0.0325 | 0.200    |
| 1,2,3-Trimethylbenzene      | U         |              | 0.0325 | 0.200    |
| Chlorodifluoromethane       | U         |              | 0.0325 | 0.200    |
| Dicyclopentadiene           | U         |              | 0.0325 | 0.200    |
| Ethyl acetate               | U         |              | 0.0325 | 0.200    |
| Methyl Cyclohexane          | U         |              | 0.0325 | 0.200    |
| Tert-Amyl Ethyl Ether       | U         |              | 0.0325 | 0.200    |
| (S) 1,4-Bromofluorobenzene  | 95.2      |              |        | 60.0-140 |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3432460-1 07/19/19 08:56 • (LCSD) R3432460-2 07/19/19 09:36

| Analyte                        | Spike Amount<br>ppbv | LCS Result<br>ppbv | LCSD Result<br>ppbv | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|--------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Ethanol                        | 3.75                 | 3.21               | 3.23                | 85.5          | 86.2           | 55.0-148         |               |                | 0.764    | 25              |
| Propene                        | 3.75                 | 3.80               | 3.70                | 101           | 98.7           | 64.0-144         |               |                | 2.75     | 25              |
| Dichlorodifluoromethane        | 3.75                 | 3.83               | 3.79                | 102           | 101            | 64.0-139         |               |                | 0.992    | 25              |
| 1,2-Dichlorotetrafluoroethane  | 3.75                 | 3.84               | 3.78                | 102           | 101            | 70.0-130         |               |                | 1.54     | 25              |
| Chloromethane                  | 3.75                 | 3.71               | 3.73                | 99.0          | 99.5           | 70.0-130         |               |                | 0.549    | 25              |
| Vinyl chloride                 | 3.75                 | 3.80               | 3.76                | 101           | 100            | 70.0-130         |               |                | 1.08     | 25              |
| 1,3-Butadiene                  | 3.75                 | 3.82               | 3.80                | 102           | 101            | 70.0-130         |               |                | 0.364    | 25              |
| Bromomethane                   | 3.75                 | 3.71               | 3.68                | 98.9          | 98.1           | 70.0-130         |               |                | 0.840    | 25              |
| Chloroethane                   | 3.75                 | 3.71               | 3.60                | 99.0          | 96.1           | 70.0-130         |               |                | 3.03     | 25              |
| Trichlorofluoromethane         | 3.75                 | 3.79               | 3.77                | 101           | 101            | 70.0-130         |               |                | 0.566    | 25              |
| 1,1,2-Trichlorotrifluoroethane | 3.75                 | 3.80               | 3.77                | 101           | 101            | 70.0-130         |               |                | 0.793    | 25              |
| 1,1-Dichloroethene             | 3.75                 | 3.83               | 3.80                | 102           | 101            | 70.0-130         |               |                | 0.946    | 25              |
| 1,1-Dichloroethane             | 3.75                 | 3.82               | 3.82                | 102           | 102            | 70.0-130         |               |                | 0.125    | 25              |
| Acetone                        | 3.75                 | 3.85               | 3.87                | 103           | 103            | 70.0-130         |               |                | 0.412    | 25              |
| 2-Propanol                     | 3.75                 | 3.75               | 3.73                | 99.9          | 99.5           | 70.0-139         |               |                | 0.441    | 25              |
| Carbon disulfide               | 3.75                 | 3.79               | 3.79                | 101           | 101            | 70.0-130         |               |                | 0.00551  | 25              |
| Methylene Chloride             | 3.75                 | 3.61               | 3.60                | 96.4          | 96.1           | 70.0-130         |               |                | 0.268    | 25              |
| MTBE                           | 3.75                 | 3.87               | 3.84                | 103           | 102            | 70.0-130         |               |                | 0.843    | 25              |
| trans-1,2-Dichloroethene       | 3.75                 | 3.82               | 3.80                | 102           | 101            | 70.0-130         |               |                | 0.416    | 25              |
| n-Hexane                       | 3.75                 | 3.88               | 3.87                | 103           | 103            | 70.0-130         |               |                | 0.140    | 25              |
| Vinyl acetate                  | 3.75                 | 3.91               | 3.90                | 104           | 104            | 70.0-130         |               |                | 0.289    | 25              |
| Methyl Ethyl Ketone            | 3.75                 | 3.81               | 3.87                | 102           | 103            | 70.0-130         |               |                | 1.38     | 25              |
| cis-1,2-Dichloroethene         | 3.75                 | 3.78               | 3.80                | 101           | 101            | 70.0-130         |               |                | 0.348    | 25              |
| Chloroform                     | 3.75                 | 3.81               | 3.81                | 102           | 102            | 70.0-130         |               |                | 0.187    | 25              |
| Cyclohexane                    | 3.75                 | 3.89               | 3.87                | 104           | 103            | 70.0-130         |               |                | 0.587    | 25              |
| 1,1,1-Trichloroethane          | 3.75                 | 3.83               | 3.81                | 102           | 102            | 70.0-130         |               |                | 0.385    | 25              |
| Carbon tetrachloride           | 3.75                 | 3.80               | 3.78                | 101           | 101            | 70.0-130         |               |                | 0.561    | 25              |
| Benzene                        | 3.75                 | 3.89               | 3.89                | 104           | 104            | 70.0-130         |               |                | 0.0550   | 25              |
| 1,2-Dichloroethane             | 3.75                 | 3.83               | 3.84                | 102           | 102            | 70.0-130         |               |                | 0.123    | 25              |
| Heptane                        | 3.75                 | 3.93               | 3.94                | 105           | 105            | 70.0-130         |               |                | 0.385    | 25              |
| Trichloroethylene              | 3.75                 | 3.86               | 3.85                | 103           | 103            | 70.0-130         |               |                | 0.283    | 25              |
| 1,2-Dichloropropane            | 3.75                 | 3.87               | 3.85                | 103           | 103            | 70.0-130         |               |                | 0.573    | 25              |
| 1,4-Dioxane                    | 3.75                 | 3.85               | 3.87                | 103           | 103            | 70.0-140         |               |                | 0.502    | 25              |
| Bromodichloromethane           | 3.75                 | 3.93               | 3.93                | 105           | 105            | 70.0-130         |               |                | 0.0327   | 25              |
| cis-1,3-Dichloropropene        | 3.75                 | 3.92               | 3.88                | 105           | 104            | 70.0-130         |               |                | 1.04     | 25              |
| 4-Methyl-2-pentanone (MIBK)    | 3.75                 | 3.96               | 3.93                | 106           | 105            | 70.0-139         |               |                | 0.630    | 25              |
| Toluene                        | 3.75                 | 3.89               | 3.88                | 104           | 104            | 70.0-130         |               |                | 0.297    | 25              |
| trans-1,3-Dichloropropene      | 3.75                 | 3.90               | 3.87                | 104           | 103            | 70.0-130         |               |                | 0.682    | 25              |
| 1,1,2-Trichloroethane          | 3.75                 | 3.85               | 3.87                | 103           | 103            | 70.0-130         |               |                | 0.634    | 25              |
| Tetrachloroethylene            | 3.75                 | 3.88               | 3.87                | 104           | 103            | 70.0-130         |               |                | 0.389    | 25              |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3432460-1 07/19/19 08:56 • (LCSD) R3432460-2 07/19/19 09:36

| Analyte                    | Spike Amount<br>ppbv | LCS Result<br>ppbv | LCSD Result<br>ppbv | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD<br>% | RPD Limits<br>% |
|----------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Methyl Butyl Ketone        | 3.75                 | 4.00               | 3.97                | 107           | 106            | 70.0-149         |                      |                       | 0.676    | 25              |
| Dibromochloromethane       | 3.75                 | 3.92               | 3.93                | 105           | 105            | 70.0-130         |                      |                       | 0.264    | 25              |
| 1,2-Dibromoethane          | 3.75                 | 3.86               | 3.88                | 103           | 103            | 70.0-130         |                      |                       | 0.464    | 25              |
| Chlorobenzene              | 3.75                 | 3.84               | 3.80                | 102           | 101            | 70.0-130         |                      |                       | 1.01     | 25              |
| Ethylbenzene               | 3.75                 | 3.82               | 3.80                | 102           | 101            | 70.0-130         |                      |                       | 0.502    | 25              |
| m&p-Xylene                 | 7.50                 | 7.67               | 7.68                | 102           | 102            | 70.0-130         |                      |                       | 0.0684   | 25              |
| o-Xylene                   | 3.75                 | 3.81               | 3.82                | 102           | 102            | 70.0-130         |                      |                       | 0.152    | 25              |
| Styrene                    | 3.75                 | 3.88               | 3.89                | 103           | 104            | 70.0-130         |                      |                       | 0.231    | 25              |
| Bromoform                  | 3.75                 | 3.94               | 3.92                | 105           | 105            | 70.0-130         |                      |                       | 0.450    | 25              |
| 1,1,2,2-Tetrachloroethane  | 3.75                 | 3.79               | 3.76                | 101           | 100            | 70.0-130         |                      |                       | 0.804    | 25              |
| 4-Ethyltoluene             | 3.75                 | 3.81               | 3.83                | 102           | 102            | 70.0-130         |                      |                       | 0.486    | 25              |
| 1,3,5-Trimethylbenzene     | 3.75                 | 3.89               | 3.84                | 104           | 102            | 70.0-130         |                      |                       | 1.22     | 25              |
| 1,2,4-Trimethylbenzene     | 3.75                 | 3.83               | 3.84                | 102           | 102            | 70.0-130         |                      |                       | 0.275    | 25              |
| 1,3-Dichlorobenzene        | 3.75                 | 3.83               | 3.85                | 102           | 103            | 70.0-130         |                      |                       | 0.573    | 25              |
| 1,4-Dichlorobenzene        | 3.75                 | 3.90               | 3.93                | 104           | 105            | 70.0-130         |                      |                       | 0.856    | 25              |
| Benzyl Chloride            | 3.75                 | 3.87               | 3.90                | 103           | 104            | 70.0-152         |                      |                       | 0.851    | 25              |
| 1,2-Dichlorobenzene        | 3.75                 | 3.78               | 3.77                | 101           | 100            | 70.0-130         |                      |                       | 0.359    | 25              |
| 1,2,4-Trichlorobenzene     | 3.75                 | 4.04               | 3.97                | 108           | 106            | 70.0-160         |                      |                       | 1.63     | 25              |
| Hexachloro-1,3-butadiene   | 3.75                 | 3.85               | 3.87                | 103           | 103            | 70.0-151         |                      |                       | 0.511    | 25              |
| Naphthalene                | 3.75                 | 3.95               | 3.93                | 105           | 105            | 70.0-159         |                      |                       | 0.530    | 25              |
| TPH (GC/MS) Low Fraction   | 203                  | 210                | 211                 | 104           | 104            | 70.0-130         |                      |                       | 0.350    | 25              |
| Allyl Chloride             | 3.75                 | 3.97               | 3.68                | 106           | 98.3           | 70.0-130         |                      |                       | 7.38     | 25              |
| 2-Chlorotoluene            | 3.75                 | 3.80               | 3.80                | 101           | 101            | 70.0-130         |                      |                       | 0.00618  | 25              |
| Methyl Methacrylate        | 3.75                 | 3.92               | 3.87                | 105           | 103            | 70.0-130         |                      |                       | 1.33     | 25              |
| Tetrahydrofuran            | 3.75                 | 3.84               | 3.79                | 102           | 101            | 70.0-137         |                      |                       | 1.25     | 25              |
| 2,2,4-Trimethylpentane     | 3.75                 | 3.89               | 3.87                | 104           | 103            | 70.0-130         |                      |                       | 0.358    | 25              |
| Vinyl Bromide              | 3.75                 | 3.77               | 3.69                | 101           | 98.3           | 70.0-130         |                      |                       | 2.23     | 25              |
| Isopropylbenzene           | 3.75                 | 3.82               | 3.81                | 102           | 102            | 70.0-130         |                      |                       | 0.383    | 25              |
| 1,1-Difluoroethane         | 3.75                 | 3.81               | 3.74                | 102           | 99.6           | 70.0-130         |                      |                       | 2.04     | 25              |
| 1,2,3-Trimethylbenzene     | 3.75                 | 3.84               | 3.84                | 102           | 103            | 70.0-130         |                      |                       | 0.0547   | 25              |
| Chlorodifluoromethane      | 3.75                 | 3.82               | 3.81                | 102           | 101            | 70.0-130         |                      |                       | 0.343    | 25              |
| Dicyclopentadiene          | 3.75                 | 3.82               | 3.83                | 102           | 102            | 70.0-130         |                      |                       | 0.150    | 25              |
| Ethyl acetate              | 3.75                 | 3.80               | 3.72                | 101           | 99.2           | 70.0-130         |                      |                       | 2.29     | 25              |
| Methyl Cyclohexane         | 3.75                 | 3.86               | 3.87                | 103           | 103            | 70.0-130         |                      |                       | 0.0916   | 25              |
| Tert-Amyl Ethyl Ether      | 3.75                 | 3.83               | 3.85                | 102           | 103            | 70.0-130         |                      |                       | 0.472    | 25              |
| (S) 1,4-Bromofluorobenzene |                      |                    |                     | 96.8          | 97.5           | 60.0-140         |                      |                       |          |                 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Method Blank (MB)

(MB) R3432956-3 07/20/19 10:19

| Analyte                        | MB Result<br>ppbv | MB Qualifier | MB MDL<br>ppbv | MB RDL<br>ppbv |
|--------------------------------|-------------------|--------------|----------------|----------------|
| Acetone                        | U                 |              | 0.0569         | 1.25           |
| Allyl Chloride                 | U                 |              | 0.0546         | 0.200          |
| Benzene                        | U                 |              | 0.0460         | 0.200          |
| Benzyl Chloride                | U                 |              | 0.0598         | 0.200          |
| Bromodichloromethane           | U                 |              | 0.0436         | 0.200          |
| Bromoform                      | U                 |              | 0.0786         | 0.600          |
| Bromomethane                   | U                 |              | 0.0609         | 0.200          |
| 1,3-Butadiene                  | U                 |              | 0.0563         | 2.00           |
| Carbon disulfide               | U                 |              | 0.0544         | 0.200          |
| Carbon tetrachloride           | U                 |              | 0.0585         | 0.200          |
| Chlorobenzene                  | U                 |              | 0.0601         | 0.200          |
| Chloroethane                   | U                 |              | 0.0489         | 0.200          |
| Chloroform                     | U                 |              | 0.0574         | 0.200          |
| Chloromethane                  | U                 |              | 0.0544         | 0.200          |
| 2-Chlorotoluene                | U                 |              | 0.0605         | 0.200          |
| Cyclohexane                    | U                 |              | 0.0534         | 0.200          |
| Dibromochloromethane           | U                 |              | 0.0494         | 0.200          |
| 1,2-Dibromoethane              | U                 |              | 0.0185         | 0.200          |
| 1,2-Dichlorobenzene            | U                 |              | 0.0603         | 0.200          |
| 1,3-Dichlorobenzene            | U                 |              | 0.0597         | 0.200          |
| 1,4-Dichlorobenzene            | U                 |              | 0.0557         | 0.200          |
| 1,2-Dichloroethane             | U                 |              | 0.0616         | 0.200          |
| 1,1-Dichloroethane             | U                 |              | 0.0514         | 0.200          |
| 1,1-Dichloroethene             | U                 |              | 0.0490         | 0.200          |
| cis-1,2-Dichloroethene         | U                 |              | 0.0389         | 0.200          |
| trans-1,2-Dichloroethene       | U                 |              | 0.0464         | 0.200          |
| 1,2-Dichloropropane            | U                 |              | 0.0599         | 0.200          |
| cis-1,3-Dichloropropene        | U                 |              | 0.0588         | 0.200          |
| trans-1,3-Dichloropropene      | U                 |              | 0.0435         | 0.200          |
| 1,4-Dioxane                    | U                 |              | 0.0554         | 0.200          |
| Ethylbenzene                   | U                 |              | 0.0506         | 0.200          |
| 4-Ethyltoluene                 | U                 |              | 0.0666         | 0.200          |
| Trichlorofluoromethane         | U                 |              | 0.0673         | 0.200          |
| Dichlorodifluoromethane        | U                 |              | 0.0601         | 0.200          |
| 1,1,2-Trichlorotrifluoroethane | U                 |              | 0.0687         | 0.200          |
| 1,2-Dichlorotetrafluoroethane  | U                 |              | 0.0458         | 0.200          |
| Heptane                        | U                 |              | 0.0626         | 0.200          |
| Hexachloro-1,3-butadiene       | U                 |              | 0.0656         | 0.630          |
| n-Hexane                       | U                 |              | 0.0457         | 0.200          |
| Isopropylbenzene               | U                 |              | 0.0563         | 0.200          |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3432956-3 07/20/19 10:19

| Analyte                     | MB Result | MB Qualifier | MB MDL | MB RDL   |
|-----------------------------|-----------|--------------|--------|----------|
|                             | ppbv      |              | ppbv   | ppbv     |
| Methylene Chloride          | 0.0672    | U            | 0.0465 | 0.200    |
| Methyl Butyl Ketone         | U         |              | 0.0682 | 1.25     |
| 2-Butanone (MEK)            | U         |              | 0.0493 | 1.25     |
| 4-Methyl-2-pentanone (MIBK) | U         |              | 0.0650 | 1.25     |
| Methyl Methacrylate         | U         |              | 0.0773 | 0.200    |
| MTBE                        | U         |              | 0.0505 | 0.200    |
| Naphthalene                 | U         |              | 0.154  | 0.630    |
| 2-Propanol                  | U         |              | 0.0882 | 1.25     |
| Propene                     | U         |              | 0.0932 | 0.400    |
| Styrene                     | U         |              | 0.0465 | 0.200    |
| 1,1,2,2-Tetrachloroethane   | U         |              | 0.0576 | 0.200    |
| Tetrahydrofuran             | U         |              | 0.0508 | 0.200    |
| Toluene                     | U         |              | 0.0499 | 0.200    |
| 1,2,4-Trichlorobenzene      | U         |              | 0.148  | 0.630    |
| 1,1,1-Trichloroethane       | U         |              | 0.0665 | 0.200    |
| 1,1,2-Trichloroethane       | U         |              | 0.0287 | 0.200    |
| Trichloroethylene           | U         |              | 0.0545 | 0.200    |
| 1,2,4-Trimethylbenzene      | U         |              | 0.0483 | 0.200    |
| 1,3,5-Trimethylbenzene      | U         |              | 0.0631 | 0.200    |
| 2,2,4-Trimethylpentane      | U         |              | 0.0456 | 0.200    |
| Vinyl chloride              | U         |              | 0.0457 | 0.200    |
| Vinyl Bromide               | U         |              | 0.0727 | 0.200    |
| Vinyl acetate               | U         |              | 0.0639 | 0.200    |
| m&p-Xylene                  | U         |              | 0.0946 | 0.400    |
| o-Xylene                    | U         |              | 0.0633 | 0.200    |
| Ethanol                     | U         |              | 0.0832 | 0.630    |
| TPH (GC/MS) Low Fraction    | 15.6      | U            | 6.91   | 50.0     |
| 1,1-Difluoroethane          | U         |              | 0.0325 | 0.200    |
| 1,2,3-Trimethylbenzene      | U         |              | 0.0325 | 0.200    |
| Chlorodifluoromethane       | U         |              | 0.0325 | 0.200    |
| Dicyclopentadiene           | U         |              | 0.0325 | 0.200    |
| Ethyl acetate               | U         |              | 0.0325 | 0.200    |
| Methyl Cyclohexane          | U         |              | 0.0325 | 0.200    |
| Tert-Amyl Ethyl Ether       | U         |              | 0.0325 | 0.200    |
| (S) 1,4-Bromofluorobenzene  | 98.5      |              |        | 60.0-140 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3432956-1 07/20/19 08:32 • (LCSD) R3432956-2 07/20/19 09:24

| Analyte                        | Spike Amount<br>ppbv | LCS Result<br>ppbv | LCSD Result<br>ppbv | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD<br>% | RPD Limits<br>% |
|--------------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Ethanol                        | 3.75                 | 3.20               | 3.30                | 85.2          | 87.9           | 55.0-148         |                      |                       | 3.10     | 25              |
| Propene                        | 3.75                 | 3.80               | 3.92                | 101           | 104            | 64.0-144         |                      |                       | 3.04     | 25              |
| Dichlorodifluoromethane        | 3.75                 | 3.99               | 3.99                | 106           | 107            | 64.0-139         |                      |                       | 0.207    | 25              |
| 1,2-Dichlorotetrafluoroethane  | 3.75                 | 3.90               | 3.97                | 104           | 106            | 70.0-130         |                      |                       | 1.79     | 25              |
| Chloromethane                  | 3.75                 | 3.92               | 3.96                | 105           | 106            | 70.0-130         |                      |                       | 0.825    | 25              |
| Vinyl chloride                 | 3.75                 | 3.94               | 3.93                | 105           | 105            | 70.0-130         |                      |                       | 0.209    | 25              |
| 1,3-Butadiene                  | 3.75                 | 3.70               | 3.80                | 98.6          | 101            | 70.0-130         |                      |                       | 2.65     | 25              |
| Bromomethane                   | 3.75                 | 3.84               | 3.94                | 102           | 105            | 70.0-130         |                      |                       | 2.42     | 25              |
| Chloroethane                   | 3.75                 | 3.90               | 3.94                | 104           | 105            | 70.0-130         |                      |                       | 0.992    | 25              |
| Trichlorofluoromethane         | 3.75                 | 3.81               | 3.96                | 102           | 106            | 70.0-130         |                      |                       | 3.83     | 25              |
| 1,1,2-Trichlorotrifluoroethane | 3.75                 | 3.86               | 3.98                | 103           | 106            | 70.0-130         |                      |                       | 2.93     | 25              |
| 1,1-Dichloroethene             | 3.75                 | 3.85               | 3.97                | 103           | 106            | 70.0-130         |                      |                       | 3.17     | 25              |
| 1,1-Dichloroethane             | 3.75                 | 3.87               | 3.96                | 103           | 106            | 70.0-130         |                      |                       | 2.39     | 25              |
| Acetone                        | 3.75                 | 3.76               | 3.85                | 100           | 103            | 70.0-130         |                      |                       | 2.35     | 25              |
| 2-Propanol                     | 3.75                 | 3.62               | 3.73                | 96.5          | 99.6           | 70.0-139         |                      |                       | 3.16     | 25              |
| Carbon disulfide               | 3.75                 | 3.88               | 3.97                | 103           | 106            | 70.0-130         |                      |                       | 2.31     | 25              |
| Methylene Chloride             | 3.75                 | 3.62               | 3.74                | 96.7          | 99.8           | 70.0-130         |                      |                       | 3.23     | 25              |
| MTBE                           | 3.75                 | 3.79               | 3.88                | 101           | 104            | 70.0-130         |                      |                       | 2.48     | 25              |
| trans-1,2-Dichloroethene       | 3.75                 | 3.83               | 3.97                | 102           | 106            | 70.0-130         |                      |                       | 3.72     | 25              |
| n-Hexane                       | 3.75                 | 3.90               | 4.04                | 104           | 108            | 70.0-130         |                      |                       | 3.56     | 25              |
| Vinyl acetate                  | 3.75                 | 3.91               | 3.98                | 104           | 106            | 70.0-130         |                      |                       | 1.90     | 25              |
| Methyl Ethyl Ketone            | 3.75                 | 3.91               | 3.86                | 104           | 103            | 70.0-130         |                      |                       | 1.14     | 25              |
| cis-1,2-Dichloroethene         | 3.75                 | 3.89               | 3.94                | 104           | 105            | 70.0-130         |                      |                       | 1.45     | 25              |
| Chloroform                     | 3.75                 | 3.90               | 3.93                | 104           | 105            | 70.0-130         |                      |                       | 0.702    | 25              |
| Cyclohexane                    | 3.75                 | 3.85               | 3.91                | 103           | 104            | 70.0-130         |                      |                       | 1.67     | 25              |
| 1,1,1-Trichloroethane          | 3.75                 | 3.82               | 3.92                | 102           | 105            | 70.0-130         |                      |                       | 2.73     | 25              |
| Carbon tetrachloride           | 3.75                 | 3.89               | 3.98                | 104           | 106            | 70.0-130         |                      |                       | 2.35     | 25              |
| Benzene                        | 3.75                 | 3.90               | 3.93                | 104           | 105            | 70.0-130         |                      |                       | 0.894    | 25              |
| 1,2-Dichloroethane             | 3.75                 | 3.85               | 3.88                | 103           | 103            | 70.0-130         |                      |                       | 0.748    | 25              |
| Heptane                        | 3.75                 | 3.83               | 3.86                | 102           | 103            | 70.0-130         |                      |                       | 0.625    | 25              |
| Trichloroethylene              | 3.75                 | 3.87               | 3.86                | 103           | 103            | 70.0-130         |                      |                       | 0.223    | 25              |
| 1,2-Dichloropropane            | 3.75                 | 3.97               | 3.93                | 106           | 105            | 70.0-130         |                      |                       | 0.824    | 25              |
| 1,4-Dioxane                    | 3.75                 | 3.92               | 3.85                | 104           | 103            | 70.0-140         |                      |                       | 1.80     | 25              |
| Bromodichloromethane           | 3.75                 | 3.91               | 3.92                | 104           | 104            | 70.0-130         |                      |                       | 0.125    | 25              |
| cis-1,3-Dichloropropene        | 3.75                 | 4.01               | 3.93                | 107           | 105            | 70.0-130         |                      |                       | 1.88     | 25              |
| 4-Methyl-2-pentanone (MIBK)    | 3.75                 | 3.84               | 3.83                | 102           | 102            | 70.0-139         |                      |                       | 0.139    | 25              |
| Toluene                        | 3.75                 | 4.01               | 3.98                | 107           | 106            | 70.0-130         |                      |                       | 0.699    | 25              |
| trans-1,3-Dichloropropene      | 3.75                 | 3.95               | 3.98                | 105           | 106            | 70.0-130         |                      |                       | 0.788    | 25              |
| 1,1,2-Trichloroethane          | 3.75                 | 4.02               | 4.12                | 107           | 110            | 70.0-130         |                      |                       | 2.27     | 25              |
| Methyl Butyl Ketone            | 3.75                 | 3.93               | 3.95                | 105           | 105            | 70.0-149         |                      |                       | 0.515    | 25              |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3432956-1 07/20/19 08:32 • (LCSD) R3432956-2 07/20/19 09:24

| Analyte                    | Spike Amount<br>ppbv | LCS Result<br>ppbv | LCSD Result<br>ppbv | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Dibromochloromethane       | 3.75                 | 4.13               | 4.14                | 110           | 111            | 70.0-130         |               |                | 0.328    | 25              |
| 1,2-Dibromoethane          | 3.75                 | 4.03               | 4.05                | 108           | 108            | 70.0-130         |               |                | 0.491    | 25              |
| Chlorobenzene              | 3.75                 | 4.05               | 4.05                | 108           | 108            | 70.0-130         |               |                | 0.0886   | 25              |
| Ethylbenzene               | 3.75                 | 4.01               | 3.94                | 107           | 105            | 70.0-130         |               |                | 1.64     | 25              |
| m&p-Xylene                 | 7.50                 | 8.05               | 8.06                | 107           | 107            | 70.0-130         |               |                | 0.144    | 25              |
| o-Xylene                   | 3.75                 | 3.95               | 3.92                | 105           | 104            | 70.0-130         |               |                | 0.740    | 25              |
| Styrene                    | 3.75                 | 3.99               | 3.93                | 106           | 105            | 70.0-130         |               |                | 1.31     | 25              |
| Bromoform                  | 3.75                 | 4.11               | 4.06                | 110           | 108            | 70.0-130         |               |                | 1.30     | 25              |
| 1,1,2,2-Tetrachloroethane  | 3.75                 | 3.85               | 3.87                | 103           | 103            | 70.0-130         |               |                | 0.758    | 25              |
| 4-Ethyltoluene             | 3.75                 | 3.93               | 3.95                | 105           | 105            | 70.0-130         |               |                | 0.538    | 25              |
| 1,3,5-Trimethylbenzene     | 3.75                 | 3.89               | 3.87                | 104           | 103            | 70.0-130         |               |                | 0.504    | 25              |
| 1,2,4-Trimethylbenzene     | 3.75                 | 3.91               | 3.92                | 104           | 105            | 70.0-130         |               |                | 0.331    | 25              |
| 1,3-Dichlorobenzene        | 3.75                 | 3.94               | 3.91                | 105           | 104            | 70.0-130         |               |                | 0.713    | 25              |
| 1,4-Dichlorobenzene        | 3.75                 | 3.99               | 3.95                | 106           | 105            | 70.0-130         |               |                | 0.976    | 25              |
| Benzyl Chloride            | 3.75                 | 4.16               | 4.24                | 111           | 113            | 70.0-152         |               |                | 1.85     | 25              |
| 1,2-Dichlorobenzene        | 3.75                 | 3.88               | 3.93                | 104           | 105            | 70.0-130         |               |                | 1.26     | 25              |
| 1,2,4-Trichlorobenzene     | 3.75                 | 3.98               | 4.00                | 106           | 107            | 70.0-160         |               |                | 0.427    | 25              |
| Hexachloro-1,3-butadiene   | 3.75                 | 3.64               | 3.69                | 97.0          | 98.4           | 70.0-151         |               |                | 1.41     | 25              |
| Naphthalene                | 3.75                 | 3.99               | 4.09                | 106           | 109            | 70.0-159         |               |                | 2.41     | 25              |
| TPH (GC/MS) Low Fraction   | 203                  | 193                | 196                 | 95.5          | 96.7           | 70.0-130         |               |                | 1.17     | 25              |
| Allyl Chloride             | 3.75                 | 3.91               | 3.93                | 104           | 105            | 70.0-130         |               |                | 0.453    | 25              |
| 2-Chlorotoluene            | 3.75                 | 3.86               | 3.86                | 103           | 103            | 70.0-130         |               |                | 0.0583   | 25              |
| Methyl Methacrylate        | 3.75                 | 3.80               | 3.86                | 101           | 103            | 70.0-130         |               |                | 1.66     | 25              |
| Tetrahydrofuran            | 3.75                 | 3.79               | 3.83                | 101           | 102            | 70.0-137         |               |                | 1.06     | 25              |
| 2,2,4-Trimethylpentane     | 3.75                 | 3.96               | 4.03                | 105           | 107            | 70.0-130         |               |                | 1.79     | 25              |
| Vinyl Bromide              | 3.75                 | 3.91               | 3.98                | 104           | 106            | 70.0-130         |               |                | 1.70     | 25              |
| Isopropylbenzene           | 3.75                 | 3.99               | 3.95                | 106           | 105            | 70.0-130         |               |                | 0.897    | 25              |
| 1,1-Difluoroethane         | 3.75                 | 3.87               | 3.91                | 103           | 104            | 70.0-130         |               |                | 1.18     | 25              |
| 1,2,3-Trimethylbenzene     | 3.75                 | 3.88               | 3.91                | 103           | 104            | 70.0-130         |               |                | 0.766    | 25              |
| Chlorodifluoromethane      | 3.75                 | 3.96               | 3.94                | 106           | 105            | 70.0-130         |               |                | 0.562    | 25              |
| Dicyclopentadiene          | 3.75                 | 3.88               | 3.94                | 103           | 105            | 70.0-130         |               |                | 1.60     | 25              |
| Ethyl acetate              | 3.75                 | 3.76               | 3.82                | 100           | 102            | 70.0-130         |               |                | 1.51     | 25              |
| Methyl Cyclohexane         | 3.75                 | 3.93               | 3.90                | 105           | 104            | 70.0-130         |               |                | 0.810    | 25              |
| Tert-Amyl Ethyl Ether      | 3.75                 | 3.73               | 3.77                | 99.4          | 100            | 70.0-130         |               |                | 1.02     | 25              |
| (S) 1,4-Bromofluorobenzene |                      |                    |                     | 99.5          | 99.6           | 60.0-140         |               |                |          |                 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3432680-3 07/20/19 21:26

| Analyte                           | MB Result | MB Qualifier | MB MDL | MB RDL   |
|-----------------------------------|-----------|--------------|--------|----------|
|                                   | ppbv      |              | ppbv   | ppbv     |
| Trichlorofluoromethane            | U         |              | 0.0673 | 0.200    |
| Dichlorodifluoromethane           | U         |              | 0.0601 | 0.200    |
| Ethanol                           | U         |              | 0.0832 | 0.630    |
| <i>(S) 1,4-Bromofluorobenzene</i> | 96.4      |              |        | 60.0-140 |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3432680-1 07/20/19 20:09 • (LCSD) R3432680-2 07/20/19 20:48

| Analyte                           | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD    | RPD Limits |
|-----------------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|--------|------------|
|                                   | ppbv         | ppbv       | ppbv        | %        | %         | %           |               |                | %      | %          |
| Ethanol                           | 3.75         | 3.09       | 3.08        | 82.3     | 82.2      | 55.0-148    |               |                | 0.0962 | 25         |
| Dichlorodifluoromethane           | 3.75         | 3.90       | 4.09        | 104      | 109       | 64.0-139    |               |                | 4.81   | 25         |
| Trichlorofluoromethane            | 3.75         | 3.61       | 3.70        | 96.3     | 98.7      | 70.0-130    |               |                | 2.41   | 25         |
| <i>(S) 1,4-Bromofluorobenzene</i> |              |            |             | 98.4     | 99.1      | 60.0-140    |               |                |        |            |

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3433552-3 07/23/19 10:05

| Analyte                           | MB Result | MB Qualifier | MB MDL | MB RDL   |
|-----------------------------------|-----------|--------------|--------|----------|
|                                   | ppbv      |              | ppbv   | ppbv     |
| Tetrachloroethylene               | U         |              | 0.0497 | 0.200    |
| <i>(S) 1,4-Bromofluorobenzene</i> | 87.2      |              |        | 60.0-140 |

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3433552-1 07/23/19 08:31 • (LCSD) R3433552-2 07/23/19 09:17

| Analyte                           | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD   | RPD Limits |
|-----------------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-------|------------|
|                                   | ppbv         | ppbv       | ppbv        | %        | %         | %           |               |                | %     | %          |
| Tetrachloroethylene               | 3.75         | 4.30       | 4.32        | 115      | 115       | 70.0-130    |               |                | 0.393 | 25         |
| <i>(S) 1,4-Bromofluorobenzene</i> |              |            |             | 92.1     | 91.4      | 60.0-140    |               |                |       |            |

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

|                              |  |
|------------------------------|--|
| MDL                          | Method Detection Limit.  |
| ND                           | Not detected at the Reporting Limit (or MDL where applicable).   |
| RDL                          | Reported Detection Limit.  |
| Rec.                         | Recovery.  |
| RPD                          | Relative Percent Difference.   |
| SDG                          | Sample Delivery Group.   |
| (S)                          | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.   |
| U                            | Not detected at the Reporting Limit (or MDL where applicable).   |
| Analyte                      | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.   |
| Dilution                     | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.  |
| Limits                       | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.  |
| Qualifier                    | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.  |
| Result                       | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma.   |
| Case Narrative (Cn)          | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.  |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.  |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.  |
| Sample Results (Sr)          | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.   |
| Sample Summary (Ss)          | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.  |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

| Qualifier | Description   |
|-----------|---|
| B         | The same analyte is found in the associated blank.                                  |
| J         | The identification of the analyte is acceptable; the reported value is an estimate. |



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

|                         |             |                             |                  |
|-------------------------|-------------|-----------------------------|------------------|
| Alabama                 | 40660       | Nebraska                    | NE-OS-15-05      |
| Alaska                  | 17-026      | Nevada                      | TN-03-2002-34    |
| Arizona                 | AZ0612      | New Hampshire               | 2975             |
| Arkansas                | 88-0469     | New Jersey-NELAP            | TN002            |
| California              | 2932        | New Mexico <sup>1</sup>     | n/a              |
| Colorado                | TN00003     | New York                    | 11742            |
| Connecticut             | PH-0197     | North Carolina              | Env375           |
| Florida                 | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                 | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>    | 923         | North Dakota                | R-140            |
| Idaho                   | TN00003     | Ohio-VAP                    | CL0069           |
| Illinois                | 200008      | Oklahoma                    | 9915             |
| Indiana                 | C-TN-01     | Oregon                      | TN200002         |
| Iowa                    | 364         | Pennsylvania                | 68-02979         |
| Kansas                  | E-10277     | Rhode Island                | LA000356         |
| Kentucky <sup>1,6</sup> | 90010       | South Carolina              | 84004            |
| Kentucky <sup>2</sup>   | 16          | South Dakota                | n/a              |
| Louisiana               | AI30792     | Tennessee <sup>1,4</sup>    | 2006             |
| Louisiana <sup>1</sup>  | LA180010    | Texas                       | T104704245-18-15 |
| Maine                   | TN0002      | Texas <sup>5</sup>          | LAB0152          |
| Maryland                | 324         | Utah                        | TN00003          |
| Massachusetts           | M-TN003     | Vermont                     | VT2006           |
| Michigan                | 9958        | Virginia                    | 460132           |
| Minnesota               | 047-999-395 | Washington                  | C847             |
| Mississippi             | TN00003     | West Virginia               | 233              |
| Missouri                | 340         | Wisconsin                   | 9980939910       |
| Montana                 | CERT0086    | Wyoming                     | A2LA             |

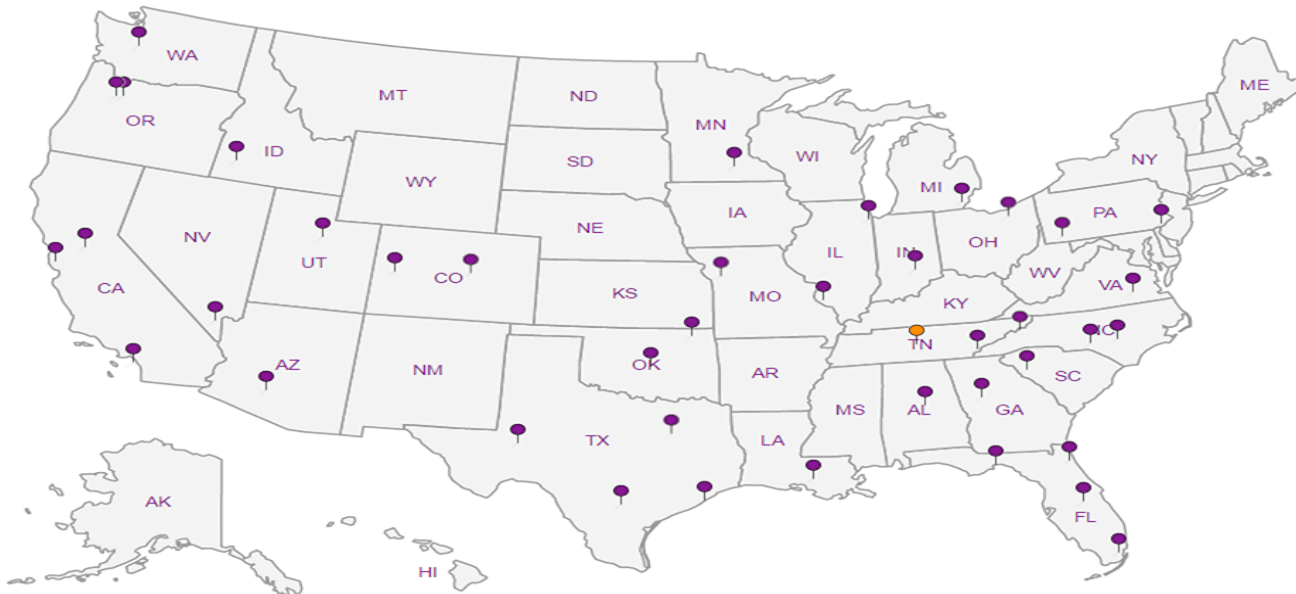
## Third Party Federal Accreditations

|                               |         |                    |               |
|-------------------------------|---------|--------------------|---------------|
| A2LA – ISO 17025              | 1461.01 | AIHA-LAP,LLC EMLAP | 100789        |
| A2LA – ISO 17025 <sup>5</sup> | 1461.02 | DOD                | 1461.01       |
| Canada                        | 1461.01 | USDA               | P330-15-00234 |
| EPA-Crypto                    | TN00003 |                    |               |

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



# ATC Group Services - Novi, MI

46555 Humboldt Drive Suite 100  
Novi, MI 48377

### Billing Information:

Accounts Payable  
46555 Humboldt Dr., Ste.100  
Novi, MI 48377

Pres  
Chk

### Analysis / Container / Preservative

Chain of Custody Page \_\_\_ of \_\_\_



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



Report to:  
Gerard DeBusschere

Email To: Gerard.DeBusschere@atcgs.com

Project  
Description: Donaldson/Ferndale Soil Gas

City/State  
Collected:

Phone: 248-669-5140  
Fax: 248-669-5147

Client Project #  
NPJBD19002

Lab Project #  
ATCNMI-NPJBD19002

Collected by (print):

Site/Facility ID #

P.O. #

Collected by (signature):

**Rush?** (Lab MUST Be Notified)

Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Quote #

Date Results Needed

Immediately  
Packed on Ice N \_\_\_ Y \_\_\_

No.  
of  
Cnts

TO-15 Summa

| Sample ID | Comp/Grab | Matrix * | Depth | Date    | Time | No. of Cnts | TO-15 Summa |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------|-----------|----------|-------|---------|------|-------------|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| A1        | G         | Air      | 5'    | 7/15/19 | 1116 | 1           | X           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| A2        | G         | Air      | 5'    |         | 1120 | 1           | X           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| A3        | G         | Air      | 5'    |         | 1117 | 1           | X           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| A4        | G         | Air      | 5'    |         | 1117 | 1           | X           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| B1        | G         | Air      |       | 7/15/19 | 1204 | 1           | X           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| B2        | G         | Air      |       |         | 1204 | 1           | X           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| B3        | G         | Air      |       |         | 1204 | 1           | X           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| B4        | G         | Air      |       |         | 1211 | 1           | X           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C1        | G         | Air      |       |         | 1328 | 1           | X           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C2        | G         | Air      |       |         | 1328 | 1           | X           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

L# **L1119489**

Table #

Acctnum: **ATCNMI**

Template: **T152410**

Prelogin: **P716956**

TSR: **134 - Mark W. Beasley**

PB: **BF 7/15/19**

Shipped Via: **FedEX Ground**

| Remarks | Sample # (lab only) |
|---------|---------------------|
|         | -9                  |
|         | 02                  |
|         | 03                  |
|         | 04                  |
|         | 05                  |
|         | 06                  |
|         | 07                  |
|         | 08                  |
|         | 09                  |
|         | 10                  |

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:

pH \_\_\_\_\_ Temp \_\_\_\_\_

Flow \_\_\_\_\_ Other \_\_\_\_\_

Samples returned via:  
 UPS  FedEx  Courier \_\_\_\_\_

Tracking # **4794 8845 6247**

**Sample Receipt Checklist**

COC Seal Present/Intact:  NP  Y  N

COC Signed/Accurate:  Y  N

Bottles arrive intact:  Y  N

Correct bottles used:  Y  N

Sufficient volume sent:  Y  N

**If Applicable**

VOA Zero Headspace:  Y  N

Preservation Correct/Checked:  Y  N

|                                  |                      |                   |                                      |  |
|----------------------------------|----------------------|-------------------|--------------------------------------|--|
| Relinquished by: (Signature)<br> | Date: <b>7/15/19</b> | Time: <b>2010</b> | Received by: (Signature)<br>         | Trip Blank Received: Yes/No<br>HCL/MeOH<br>TBR     |
| Relinquished by: (Signature)     | Date:                | Time:             | Received by: (Signature)             | Temp: <b>Aut</b> °C<br>Bottles Received: <b>22</b> |
| Relinquished by: (Signature)     | Date:                | Time:             | Received for lab by: (Signature)<br> | Date: <b>7/17/19</b> Time: <b>0025</b>             |

Condition:  
NCF / OK



# ATC Group Services - Novi, MI

46555 Humboldt Drive Suite 100  
Novi, MI 48377

## Billing Information:

Accounts Payable  
46555 Humboldt Dr., Ste.100  
Novi, MI 48377

Pres  
Chk

Analysis / Container / Preservative

Chain of Custody Page \_\_\_ of \_\_\_



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



Report to:  
**Gerard DeBusschere**

Email To: Gerard.DeBusschere@atgs.com

Project  
Description: **Donaldson/Ferndale Soil Gas**

City/State  
Collected: **Ferndale, MI**

Phone: **248-669-5140**  
Fax: **248-669-5147**

Client Project #  
**NPJBD19002**

Lab Project #  
**ATCNMI-NPJBD19002**

Collected by (print):  
**Eric Adolphus**

Site/Facility ID #

P.O. #

Collected by (signature):

**Rush?** (Lab MUST Be Notified)

Quote #

\_\_\_ Same Day \_\_\_ Five Day  
\_\_\_ Next Day \_\_\_ 5 Day (Rad Only)  
\_\_\_ Two Day \_\_\_ 10 Day (Rad Only)  
\_\_\_ Three Day

Date Results Needed

Immediately  
Packed on Ice N \_\_\_ Y \_\_\_

No.  
of  
Cntrs

TO-15 Summa

| Sample ID       | Comp/Grab | Matrix * | Depth | Date    | Time | No. of Cntrs |   |
|-----------------|-----------|----------|-------|---------|------|--------------|---|
| <del>A</del> F3 | G         | Air      | 5'    | 7/15/19 | 1634 | 1            | X |
| <del>A</del> F4 | G         | Air      | 5'    | 7/15/19 | 1630 | 1            | X |
| <del>A</del>    |           | Air      |       |         |      | 1            | X |
| <del>A</del>    |           | Air      |       |         |      | 1            | X |
|                 |           | Air      |       |         |      | 1            | X |

L# **L1119894**  
Table #  
Acctnum: **ATCNMI**  
Template: **T152410**  
Prelogin: **P716956**  
TSR: **134 - Mark W. Beasley**  
PB: **7/5/19 BF**  
Shipped Via: **FedEX Ground**

Remarks Sample # (lab only)

-21  
22

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:

Samples returned via:  
\_\_\_ UPS \_\_\_ FedEx \_\_\_ Courier

pH \_\_\_\_\_ Temp \_\_\_\_\_  
Flow \_\_\_\_\_ Other \_\_\_\_\_

**Sample Receipt Checklist**  
COC Seal Present/Intact:  Y  N  
COC Signed/Accurate:  Y  N  
Bottles arrive intact:  Y  N  
Correct bottles used:  Y  N  
Sufficient volume sent:  Y  N  
**If Applicable**  
VOA Zero Headspace:  Y  N  
Preservation Correct/Checked:  Y  N

**BAD SCREEN: <0.5 mR/hr**

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Trip Blank Received: Yes / No

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: Time:

Hold:

Condition:  
NCF /  OK

*[Signature]*

7/15/19

2010

*[Signature]* 4797 8145 6235

HCL / MeOH  
TBR

*[Signature]*

*[Signature]* 7/16/19 1100

Amb<sup>2</sup> 22

*[Signature]*

*[Signature]*

7/17/19 0845

April 23, 2020

Joshua Schuyler  
ATC Group Services - Novi  
46555 Humboldt Drive  
Suite 100  
Novi, MI 48377

RE: Project: 8 Mile Ferndale  
Pace Project No.: 50253160

Dear Joshua Schuyler:

Enclosed are the analytical results for sample(s) received by the laboratory on March 27, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

Revised Report. This report replaces the original dated 040720, it has been revised to add Chrome Speciation, per client request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Brian Hall  
brian.hall@pacelabs.com  
(616)975-4500  
Project Manager

Enclosures

cc: AP c/o Abigail Jardine, ATC Group Services  
Michael Hauswirth, ATC Group Services  
April Hehir



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
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## CERTIFICATIONS

Project: 8 Mile Ferndale

Pace Project No.: 50253160

---

### **Pace Analytical Services Indianapolis**

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

West Virginia Certification #: 330

Wisconsin Laboratory #: 999788130

USDA Soil Permit #: P330-19-00257

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 8 Mile Ferndale

Pace Project No.: 50253160

| Lab ID      | Sample ID       | Matrix | Date Collected | Date Received  |
|-------------|-----------------|--------|----------------|----------------|
| 50253160001 | MW-101 (2-3')   | Solid  | 03/23/20 14:40 | 03/27/20 08:10 |
| 50253160002 | MW-102 (2-3')   | Solid  | 03/23/20 13:50 | 03/27/20 08:10 |
| 50253160003 | MW-103 (2-3')   | Solid  | 03/23/20 10:47 | 03/27/20 08:10 |
| 50253160004 | MW-104 (2-3')   | Solid  | 03/23/20 10:20 | 03/27/20 08:10 |
| 50253160005 | MW-105 (2-3')   | Solid  | 03/23/20 10:10 | 03/27/20 08:10 |
| 50253160006 | MW-106 (2-3')   | Solid  | 03/25/20 08:10 | 03/27/20 08:10 |
| 50253160007 | MW-107 (2-3')   | Solid  | 03/25/20 08:50 | 03/27/20 08:10 |
| 50253160008 | MW-108 (2-3')   | Solid  | 03/25/20 09:09 | 03/27/20 08:10 |
| 50253160009 | MW-109 (1-2')   | Solid  | 03/25/20 09:35 | 03/27/20 08:10 |
| 50253160010 | MW-110 (1-2')   | Solid  | 03/25/20 10:00 | 03/27/20 08:10 |
| 50253160011 | MW-111 (3-4')   | Solid  | 03/25/20 10:30 | 03/27/20 08:10 |
| 50253160012 | MW-112 (3-4')   | Solid  | 03/25/20 10:50 | 03/27/20 08:10 |
| 50253160013 | MW-104 (14-15') | Solid  | 03/23/20 12:30 | 03/27/20 08:10 |
| 50253160014 | MW-105 (12-13') | Solid  | 03/23/20 12:10 | 03/27/20 08:10 |
| 50253160015 | MW-106 (5-6')   | Solid  | 03/25/20 08:22 | 03/27/20 08:10 |
| 50253160016 | MW-107 (6-7')   | Solid  | 03/25/20 08:55 | 03/27/20 08:10 |
| 50253160017 | MW-108 (4-5')   | Solid  | 03/25/20 09:15 | 03/27/20 08:10 |
| 50253160018 | MW-109 (4-5')   | Solid  | 03/25/20 09:40 | 03/27/20 08:10 |
| 50253160019 | MW-110 (4-5')   | Solid  | 03/25/20 10:05 | 03/27/20 08:10 |
| 50253160020 | MW-113 (7-8')   | Solid  | 03/24/20 09:45 | 03/27/20 08:10 |
| 50253160021 | MW-114 (8-9')   | Solid  | 03/24/20 11:10 | 03/27/20 08:10 |
| 50253160022 | MW-115 (7-8')   | Solid  | 03/24/20 12:20 | 03/27/20 08:10 |
| 50253160023 | Dup-1           | Solid  | 03/23/20 12:00 | 03/27/20 08:10 |
| 50253160024 | Dup-2           | Solid  | 03/24/20 11:15 | 03/27/20 08:10 |
| 50253160025 | MW-113 (2-3')   | Solid  | 03/23/20 15:50 | 03/27/20 08:10 |
| 50253160026 | MW-114 (3-4')   | Solid  | 03/24/20 11:00 | 03/27/20 08:10 |
| 50253160027 | MW-115 (2-3')   | Solid  | 03/24/20 12:15 | 03/27/20 08:10 |
| 50253160028 | Trip Blank      | Solid  | 03/23/20 08:30 | 03/27/20 08:10 |
| 50253160029 | Field Blank     | Solid  | 03/23/20 11:00 | 03/27/20 08:10 |

## REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

### SAMPLE ANALYTE COUNT

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

| Lab ID      | Sample ID     | Method                         | Analysts | Analytes Reported |
|-------------|---------------|--------------------------------|----------|-------------------|
| 50253160001 | MW-101 (2-3') | EPA 6010                       | KJE      | 4                 |
|             |               | EPA 6020                       | DMT      | 3                 |
|             |               | EPA 7471                       | ILP      | 1                 |
|             |               | SM 2540G                       | SLB      | 1                 |
|             |               | EPA 7196A                      | SWJ      | 1                 |
|             |               | Trivalent Chromium Calculation | SLB      | 1                 |
| 50253160002 | MW-102 (2-3') | EPA 6010                       | KJE      | 4                 |
|             |               | EPA 6020                       | DMT      | 3                 |
|             |               | EPA 7471                       | ILP      | 1                 |
|             |               | SM 2540G                       | SLB      | 1                 |
|             |               | EPA 7196A                      | SWJ      | 1                 |
|             |               | Trivalent Chromium Calculation | SLB      | 1                 |
| 50253160003 | MW-103 (2-3') | EPA 6010                       | KJE      | 4                 |
|             |               | EPA 6020                       | DMT      | 3                 |
|             |               | EPA 7471                       | ILP      | 1                 |
|             |               | SM 2540G                       | SLB      | 1                 |
|             |               | EPA 7196A                      | SWJ      | 1                 |
|             |               | Trivalent Chromium Calculation | SLB      | 1                 |
| 50253160004 | MW-104 (2-3') | EPA 6010                       | KJE      | 4                 |
|             |               | EPA 6020                       | DMT      | 3                 |
|             |               | EPA 7471                       | ILP      | 1                 |
|             |               | SM 2540G                       | SLB      | 1                 |
|             |               | EPA 7196A                      | SWJ      | 1                 |
|             |               | Trivalent Chromium Calculation | SLB      | 1                 |
| 50253160005 | MW-105 (2-3') | EPA 6010                       | KJE      | 4                 |
|             |               | EPA 6020                       | DMT      | 3                 |
|             |               | EPA 7471                       | ILP      | 1                 |
|             |               | SM 2540G                       | SLB      | 1                 |
|             |               | EPA 7196A                      | SWJ      | 1                 |
|             |               | Trivalent Chromium Calculation | SLB      | 1                 |
| 50253160006 | MW-106 (2-3') | EPA 6010                       | KJE      | 4                 |
|             |               | EPA 6020                       | DMT      | 3                 |
|             |               | EPA 7471                       | ILP      | 1                 |
|             |               | SM 2540G                       | SLB      | 1                 |
|             |               | EPA 7196A                      | SWJ      | 1                 |
|             |               | Trivalent Chromium Calculation | SLB      | 1                 |
| 50253160007 | MW-107 (2-3') | EPA 6010                       | KJE      | 4                 |

### REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

### SAMPLE ANALYTE COUNT

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

| Lab ID      | Sample ID       | Method                         | Analysts | Analytes Reported |
|-------------|-----------------|--------------------------------|----------|-------------------|
| 50253160008 | MW-108 (2-3')   | EPA 6020                       | DMT      | 3                 |
|             |                 | EPA 7471                       | ILP      | 1                 |
|             |                 | SM 2540G                       | SLB      | 1                 |
|             |                 | EPA 7196A                      | SWJ      | 1                 |
|             |                 | Trivalent Chromium Calculation | SLB      | 1                 |
|             |                 | EPA 6010                       | KJE      | 4                 |
|             |                 | EPA 6020                       | DMT      | 3                 |
|             |                 | EPA 7471                       | ILP      | 1                 |
|             |                 | SM 2540G                       | SLB      | 1                 |
|             |                 | EPA 7196A                      | SWJ      | 1                 |
| 50253160009 | MW-109 (1-2')   | Trivalent Chromium Calculation | SLB      | 1                 |
|             |                 | EPA 6010                       | KJE      | 4                 |
|             |                 | EPA 6020                       | DMT      | 3                 |
|             |                 | EPA 7471                       | ILP      | 1                 |
|             |                 | SM 2540G                       | SLB      | 1                 |
|             |                 | EPA 7196A                      | SWJ      | 1                 |
|             |                 | Trivalent Chromium Calculation | SLB      | 1                 |
|             |                 | EPA 6010                       | KJE      | 4                 |
|             |                 | EPA 6020                       | DMT      | 3                 |
|             |                 | EPA 7471                       | ILP      | 1                 |
| 50253160010 | MW-110 (1-2')   | SM 2540G                       | SLB      | 1                 |
|             |                 | EPA 7196A                      | SWJ      | 1                 |
|             |                 | Trivalent Chromium Calculation | SLB      | 1                 |
|             |                 | EPA 6010                       | KJE      | 4                 |
|             |                 | EPA 6020                       | DMT      | 3                 |
|             |                 | EPA 7471                       | ILP      | 1                 |
|             |                 | SM 2540G                       | SLB      | 1                 |
|             |                 | EPA 7196A                      | SWJ      | 1                 |
|             |                 | Trivalent Chromium Calculation | SLB      | 1                 |
|             |                 | EPA 6010                       | KJE      | 4                 |
| 50253160011 | MW-111 (3-4')   | EPA 6020                       | DMT      | 3                 |
|             |                 | EPA 7471                       | ILP      | 1                 |
|             |                 | SM 2540G                       | SLB      | 1                 |
|             |                 | EPA 7196A                      | SWJ      | 1                 |
|             |                 | Trivalent Chromium Calculation | SLB      | 1                 |
|             |                 | EPA 6010                       | KJE      | 4                 |
|             |                 | EPA 6020                       | DMT      | 3                 |
|             |                 | EPA 7471                       | ILP      | 1                 |
|             |                 | SM 2540G                       | SLB      | 1                 |
|             |                 | EPA 7196A                      | SWJ      | 1                 |
| 50253160012 | MW-112 (3-4')   | Trivalent Chromium Calculation | SLB      | 1                 |
|             |                 | EPA 6010                       | KJE      | 4                 |
|             |                 | EPA 6020                       | DMT      | 3                 |
|             |                 | EPA 7471                       | ILP      | 1                 |
|             |                 | SM 2540G                       | SLB      | 1                 |
|             |                 | EPA 7196A                      | SWJ      | 1                 |
|             |                 | Trivalent Chromium Calculation | SLB      | 1                 |
|             |                 | EPA 6010                       | KJE      | 4                 |
|             |                 | EPA 6020                       | DMT      | 3                 |
|             |                 | EPA 7471                       | ILP      | 1                 |
| 50253160013 | MW-104 (14-15') | SM 2540G                       | SLB      | 1                 |
|             |                 | EPA 7196A                      | SWJ      | 1                 |
|             |                 | Trivalent Chromium Calculation | SLB      | 1                 |
|             |                 | EPA 8015 Alcohol-Glycol        | CPH      | 3                 |
|             |                 | EPA 8270 by SIM                | LWG      | 19                |

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### SAMPLE ANALYTE COUNT

Project: 8 Mile Ferndale

Pace Project No.: 50253160

| Lab ID      | Sample ID       | Method                         | Analysts | Analytes Reported |
|-------------|-----------------|--------------------------------|----------|-------------------|
| 50253160014 | MW-105 (12-13') | EPA 8260                       | JPV      | 75                |
|             |                 | SM 2540G                       | SLB      | 1                 |
|             |                 | EPA 8015 Alcohol-Glycol        | CPH      | 3                 |
|             |                 | EPA 8270 by SIM                | LWG      | 19                |
|             |                 | EPA 8260                       | JPV      | 75                |
| 50253160015 | MW-106 (5-6')   | SM 2540G                       | SLB      | 1                 |
|             |                 | EPA 8015 Alcohol-Glycol        | CPH      | 3                 |
|             |                 | EPA 8270 by SIM                | LWG      | 19                |
|             |                 | EPA 8260                       | JPV      | 75                |
|             |                 | SM 2540G                       | SLB      | 1                 |
| 50253160016 | MW-107 (6-7')   | EPA 8015 Alcohol-Glycol        | CPH      | 3                 |
|             |                 | EPA 8270 by SIM                | LWG      | 19                |
|             |                 | EPA 8260                       | JPV      | 75                |
|             |                 | SM 2540G                       | SLB      | 1                 |
|             |                 | EPA 8015 Alcohol-Glycol        | CPH      | 3                 |
| 50253160017 | MW-108 (4-5')   | EPA 8270 by SIM                | LWG      | 19                |
|             |                 | EPA 8260                       | JPV      | 75                |
|             |                 | SM 2540G                       | SLB      | 1                 |
|             |                 | EPA 8015 Alcohol-Glycol        | CPH      | 3                 |
|             |                 | EPA 8270 by SIM                | LWG      | 19                |
| 50253160018 | MW-109 (4-5')   | EPA 8260                       | JPV      | 75                |
|             |                 | SM 2540G                       | SLB      | 1                 |
|             |                 | EPA 8015 Alcohol-Glycol        | CPH      | 3                 |
|             |                 | EPA 8270 by SIM                | LWG      | 19                |
|             |                 | EPA 8260                       | JPV      | 75                |
| 50253160019 | MW-110 (4-5')   | SM 2540G                       | SLB      | 1                 |
|             |                 | EPA 8015 Alcohol-Glycol        | CPH      | 3                 |
|             |                 | EPA 8270 by SIM                | LWG      | 19                |
|             |                 | EPA 8260                       | JPV      | 75                |
|             |                 | SM 2540G                       | SLB      | 1                 |
| 50253160020 | MW-113 (7-8')   | EPA 8015 Alcohol-Glycol        | CPH      | 3                 |
|             |                 | EPA 6010                       | KJE      | 4                 |
|             |                 | EPA 6020                       | DMT      | 3                 |
|             |                 | EPA 7471                       | ILP      | 1                 |
|             |                 | EPA 8270 by SIM                | LWG      | 19                |
|             |                 | EPA 8260                       | JPV      | 75                |
|             |                 | SM 2540G                       | SLB      | 1                 |
|             |                 | EPA 7196A                      | SWJ      | 1                 |
|             |                 | Trivalent Chromium Calculation | SLB      | 1                 |
|             |                 | EPA 8015 Alcohol-Glycol        | CPH      | 3                 |
| 50253160021 | MW-114 (8-9')   | EPA 6010                       | KJE      | 4                 |

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### SAMPLE ANALYTE COUNT

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

| Lab ID      | Sample ID     | Method                         | Analysts | Analytes Reported |
|-------------|---------------|--------------------------------|----------|-------------------|
|             |               | EPA 6020                       | DMT      | 3                 |
|             |               | EPA 7471                       | ILP      | 1                 |
|             |               | EPA 8270 by SIM                | LWG      | 19                |
|             |               | EPA 8260                       | JPV      | 75                |
|             |               | SM 2540G                       | SLB      | 1                 |
|             |               | EPA 7196A                      | SWJ      | 1                 |
|             |               | Trivalent Chromium Calculation | SLB      | 1                 |
| 50253160022 | MW-115 (7-8') | EPA 8015 Alcohol-Glycol        | CPH      | 3                 |
|             |               | EPA 6010                       | KJE      | 4                 |
|             |               | EPA 6020                       | DMT      | 3                 |
|             |               | EPA 7471                       | ILP      | 1                 |
|             |               | EPA 8270 by SIM                | LWG      | 19                |
|             |               | EPA 8260                       | JPV      | 75                |
|             |               | SM 2540G                       | SLB      | 1                 |
|             |               | EPA 7196A                      | SWJ      | 1                 |
|             |               | Trivalent Chromium Calculation | SLB      | 1                 |
| 50253160023 | Dup-1         | EPA 8015 Alcohol-Glycol        | CPH      | 3                 |
|             |               | EPA 6010                       | KJE      | 4                 |
|             |               | EPA 6020                       | DMT      | 3                 |
|             |               | EPA 7471                       | ILP      | 1                 |
|             |               | EPA 8270 by SIM                | LWG      | 19                |
|             |               | EPA 8260                       | JPV      | 75                |
|             |               | SM 2540G                       | SLB      | 1                 |
| 50253160024 | Dup-2         | EPA 8015 Alcohol-Glycol        | CPH      | 3                 |
|             |               | EPA 6010                       | KJE      | 4                 |
|             |               | EPA 6020                       | DMT      | 3                 |
|             |               | EPA 7471                       | ILP      | 1                 |
|             |               | EPA 8270 by SIM                | LWG      | 19                |
|             |               | EPA 8260                       | JPV      | 75                |
|             |               | SM 2540G                       | SLB      | 1                 |
| 50253160025 | MW-113 (2-3') | EPA 8015 Alcohol-Glycol        | CPH      | 3                 |
|             |               | EPA 6010                       | KJE      | 4                 |
|             |               | EPA 6020                       | DMT      | 3                 |
|             |               | EPA 7471                       | ILP      | 1                 |
|             |               | EPA 8270 by SIM                | LWG      | 19                |
|             |               | EPA 8260                       | JPV      | 75                |
|             |               | SM 2540G                       | SLB      | 1                 |

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### SAMPLE ANALYTE COUNT

Project: 8 Mile Ferndale

Pace Project No.: 50253160

| Lab ID      | Sample ID     | Method                         | Analysts | Analytes Reported |
|-------------|---------------|--------------------------------|----------|-------------------|
| 50253160026 | MW-114 (3-4') | EPA 7196A                      | SWJ      | 1                 |
|             |               | Trivalent Chromium Calculation | SLB      | 1                 |
|             |               | EPA 8015 Alcohol-Glycol        | CPH      | 3                 |
|             |               | EPA 6010                       | KJE      | 4                 |
|             |               | EPA 6020                       | DMT      | 3                 |
|             |               | EPA 7471                       | ILP      | 1                 |
|             |               | EPA 8270 by SIM                | LWG      | 19                |
|             |               | EPA 8260                       | JPV      | 75                |
|             |               | SM 2540G                       | SLB      | 1                 |
|             |               | EPA 7196A                      | SWJ      | 1                 |
| 50253160027 | MW-115 (2-3') | Trivalent Chromium Calculation | SLB      | 1                 |
|             |               | EPA 8015 Alcohol-Glycol        | CPH      | 3                 |
|             |               | EPA 6010                       | KJE      | 4                 |
|             |               | EPA 6020                       | DMT      | 3                 |
|             |               | EPA 7471                       | ILP      | 1                 |
|             |               | EPA 8270 by SIM                | LWG      | 19                |
|             |               | EPA 8260                       | JPV      | 75                |
|             |               | SM 2540G                       | SLB      | 1                 |
|             |               | EPA 7196A                      | SWJ      | 1                 |
|             |               | Trivalent Chromium Calculation | SLB      | 1                 |
| 50253160028 | Trip Blank    | EPA 8260                       | JPV      | 75                |
| 50253160029 | Field Blank   | EPA 8260                       | JPV      | 75                |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-101 (2-3)**      **Lab ID: 50253160001**      Collected: 03/23/20 14:40      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL   | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|-------|-------|----|----------------|----------------|------------|------|
| <b>6010 MET ICP</b>  |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050   |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Arsenic  | <2110   | ug/kg | 2110  | 2110  | 1  | 03/31/20 06:15 | 04/05/20 13:46 | 7440-38-2  |      |
| Barium   | 13300   | ug/kg | 1050  | 1050  | 1  | 03/31/20 06:15 | 04/05/20 13:46 | 7440-39-3  |      |
| Chromium   | 5920    | ug/kg | 2110  | 2110  | 1  | 03/31/20 06:15 | 04/05/20 13:46 | 7440-47-3  |      |
| Lead   | <10500  | ug/kg | 10500 | 10500 | 1  | 03/31/20 06:15 | 04/05/20 13:46 | 7439-92-1  |      |
| <b>6020 MET ICPMS</b>                                      |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B  |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Cadmium  | <210    | ug/kg | 210   | 210   | 1  | 03/30/20 10:20 | 03/31/20 09:55 | 7440-43-9  |      |
| Selenium   | <1050   | ug/kg | 1050  | 1050  | 5  | 03/30/20 10:20 | 03/31/20 07:10 | 7782-49-2  | D3   |
| Silver   | <105    | ug/kg | 105   | 105   | 1  | 03/30/20 10:20 | 03/31/20 09:55 | 7440-22-4  |      |
| <b>7471 Mercury</b>  |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471   |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Mercury  | <59.9   | ug/kg | 107   | 59.9  | 1  | 04/03/20 12:46 | 04/06/20 08:28 | 7439-97-6  |      |
| <b>Percent Moisture</b>                                    |         |       |       |       |    |                |                |            |      |
| Analytical Method: SM 2540G                                |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Percent Moisture   | 7.1     | %     | 0.10  | 0.10  | 1  |                | 04/01/20 08:36 |            |      |
| <b>7196 Chromium, Hexavalent</b>                           |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 7196A Preparation Method: EPA 3060A |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Chromium, Hexavalent                                       | <2.2    | mg/kg | 2.2   | 2.2   | 1  | 04/17/20 09:08 | 04/18/20 09:57 | 18540-29-9 |      |
| <b>Trivalent Chromium Calculation</b>                      |         |       |       |       |    |                |                |            |      |
| Analytical Method: Trivalent Chromium Calculation          |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Chromium, Trivalent  | 5.9     | mg/kg | 1.0   |       | 1  |                | 04/23/20 07:38 | 16065-83-1 |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-102 (2-3)**      **Lab ID: 50253160002**      Collected: 03/23/20 13:50      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results          | Units | PQL   | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--|------------------|-------|-------|-------|----|----------------|----------------|------------|------|
| <b>6010 MET ICP</b>  |                  |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050   |                  |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |                  |       |       |       |    |                |                |            |      |
| Arsenic  | <b>2190</b>      | ug/kg | 2070  | 2070  | 1  | 03/31/20 06:15 | 04/05/20 14:00 | 7440-38-2  |      |
| Barium   | <b>16800</b>     | ug/kg | 1030  | 1030  | 1  | 03/31/20 06:15 | 04/05/20 14:00 | 7440-39-3  |      |
| Chromium   | <b>10500</b>     | ug/kg | 2070  | 2070  | 1  | 03/31/20 06:15 | 04/05/20 14:00 | 7440-47-3  |      |
| Lead   | <b>&lt;10300</b> | ug/kg | 10300 | 10300 | 1  | 03/31/20 06:15 | 04/05/20 14:00 | 7439-92-1  |      |
| <b>6020 MET ICPMS</b>                                      |                  |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B  |                  |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |                  |       |       |       |    |                |                |            |      |
| Cadmium  | <b>&lt;210</b>   | ug/kg | 210   | 210   | 1  | 03/30/20 10:20 | 03/31/20 10:36 | 7440-43-9  |      |
| Selenium   | <b>&lt;1050</b>  | ug/kg | 1050  | 1050  | 5  | 03/30/20 10:20 | 03/31/20 07:42 | 7782-49-2  | D3   |
| Silver   | <b>&lt;105</b>   | ug/kg | 105   | 105   | 1  | 03/30/20 10:20 | 03/31/20 10:36 | 7440-22-4  |      |
| <b>7471 Mercury</b>  |                  |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471   |                  |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |                  |       |       |       |    |                |                |            |      |
| Mercury  | <b>70.6J</b>     | ug/kg | 112   | 62.7  | 1  | 04/03/20 12:46 | 04/06/20 08:36 | 7439-97-6  |      |
| <b>Percent Moisture</b>                                    |                  |       |       |       |    |                |                |            |      |
| Analytical Method: SM 2540G                                |                  |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |                  |       |       |       |    |                |                |            |      |
| Percent Moisture   | <b>7.0</b>       | %     | 0.10  | 0.10  | 1  |                | 04/01/20 08:36 |            |      |
| <b>7196 Chromium, Hexavalent</b>                           |                  |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 7196A Preparation Method: EPA 3060A |                  |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |                  |       |       |       |    |                |                |            |      |
| Chromium, Hexavalent                                       | <b>&lt;2.1</b>   | mg/kg | 2.1   | 2.1   | 1  | 04/17/20 09:08 | 04/18/20 09:58 | 18540-29-9 |      |
| <b>Trivalent Chromium Calculation</b>                      |                  |       |       |       |    |                |                |            |      |
| Analytical Method: Trivalent Chromium Calculation          |                  |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |                  |       |       |       |    |                |                |            |      |
| Chromium, Trivalent  | <b>10.5</b>      | mg/kg | 1.0   |       | 1  |                | 04/23/20 07:38 | 16065-83-1 |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-103 (2-3)**      **Lab ID: 50253160003**      Collected: 03/23/20 10:47      Received: 03/27/20 08:10      Matrix: Solid  
*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL   | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---|---------|-------|-------|-------|----|----------------|----------------|------------|------|
| <b>6010 MET ICP</b>   |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050<br>Pace Analytical Services - Indianapolis   |         |       |       |       |    |                |                |            |      |
| Arsenic   | <2470   | ug/kg | 2470  | 2470  | 1  | 03/31/20 06:15 | 04/05/20 14:02 | 7440-38-2  |      |
| Barium  | 20800   | ug/kg | 1240  | 1240  | 1  | 03/31/20 06:15 | 04/05/20 14:02 | 7440-39-3  |      |
| Chromium  | 6570    | ug/kg | 2470  | 2470  | 1  | 03/31/20 06:15 | 04/05/20 14:02 | 7440-47-3  |      |
| Lead  | <12400  | ug/kg | 12400 | 12400 | 1  | 03/31/20 06:15 | 04/05/20 14:02 | 7439-92-1  |      |
| <b>6020 MET ICPMS</b>   |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B<br>Pace Analytical Services - Indianapolis  |         |       |       |       |    |                |                |            |      |
| Cadmium   | <267    | ug/kg | 267   | 267   | 1  | 03/30/20 10:20 | 03/31/20 10:49 | 7440-43-9  |      |
| Selenium  | <1340   | ug/kg | 1340  | 1340  | 5  | 03/30/20 10:20 | 03/31/20 07:46 | 7782-49-2  | D3   |
| Silver  | <134    | ug/kg | 134   | 134   | 1  | 03/30/20 10:20 | 03/31/20 10:49 | 7440-22-4  |      |
| <b>7471 Mercury</b>   |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471<br>Pace Analytical Services - Indianapolis   |         |       |       |       |    |                |                |            |      |
| Mercury   | <76.9   | ug/kg | 137   | 76.9  | 1  | 04/03/20 12:46 | 04/06/20 08:43 | 7439-97-6  |      |
| <b>Percent Moisture</b>   |         |       |       |       |    |                |                |            |      |
| Analytical Method: SM 2540G<br>Pace Analytical Services - Indianapolis                                |         |       |       |       |    |                |                |            |      |
| Percent Moisture  | 25.7    | %     | 0.10  | 0.10  | 1  |                | 04/01/20 08:36 |            |      |
| <b>7196 Chromium, Hexavalent</b>  |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 7196A Preparation Method: EPA 3060A<br>Pace Analytical Services - Indianapolis |         |       |       |       |    |                |                |            |      |
| Chromium, Hexavalent  | <2.7    | mg/kg | 2.7   | 2.7   | 1  | 04/17/20 09:08 | 04/18/20 09:59 | 18540-29-9 |      |
| <b>Trivalent Chromium Calculation</b>   |         |       |       |       |    |                |                |            |      |
| Analytical Method: Trivalent Chromium Calculation<br>Pace Analytical Services - Indianapolis          |         |       |       |       |    |                |                |            |      |
| Chromium, Trivalent   | 6.6     | mg/kg | 1.0   |       | 1  |                | 04/23/20 07:38 | 16065-83-1 |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-104 (2-3)**      **Lab ID: 50253160004**      Collected: 03/23/20 10:20      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL   | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|-------|-------|----|----------------|----------------|------------|------|
| <b>6010 MET ICP</b>  |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050   |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Arsenic  | <2240   | ug/kg | 2240  | 2240  | 1  | 03/31/20 06:15 | 04/05/20 14:04 | 7440-38-2  |      |
| Barium   | 17500   | ug/kg | 1120  | 1120  | 1  | 03/31/20 06:15 | 04/05/20 14:04 | 7440-39-3  |      |
| Chromium   | 6270    | ug/kg | 2240  | 2240  | 1  | 03/31/20 06:15 | 04/05/20 14:04 | 7440-47-3  |      |
| Lead   | <11200  | ug/kg | 11200 | 11200 | 1  | 03/31/20 06:15 | 04/05/20 14:04 | 7439-92-1  |      |
| <b>6020 MET ICPMS</b>                                      |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B  |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Cadmium  | <217    | ug/kg | 217   | 217   | 1  | 03/30/20 10:20 | 03/31/20 10:54 | 7440-43-9  |      |
| Selenium   | <1080   | ug/kg | 1080  | 1080  | 5  | 03/30/20 10:20 | 03/31/20 07:51 | 7782-49-2  | D3   |
| Silver   | <108    | ug/kg | 108   | 108   | 1  | 03/30/20 10:20 | 03/31/20 10:54 | 7440-22-4  |      |
| <b>7471 Mercury</b>  |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471   |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Mercury  | <62.3   | ug/kg | 111   | 62.3  | 1  | 04/03/20 12:46 | 04/06/20 08:45 | 7439-97-6  |      |
| <b>Percent Moisture</b>                                    |         |       |       |       |    |                |                |            |      |
| Analytical Method: SM 2540G                                |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Percent Moisture   | 11.8    | %     | 0.10  | 0.10  | 1  |                | 04/01/20 08:37 |            |      |
| <b>7196 Chromium, Hexavalent</b>                           |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 7196A Preparation Method: EPA 3060A |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Chromium, Hexavalent                                       | <2.3    | mg/kg | 2.3   | 2.3   | 1  | 04/17/20 09:08 | 04/18/20 10:02 | 18540-29-9 |      |
| <b>Trivalent Chromium Calculation</b>                      |         |       |       |       |    |                |                |            |      |
| Analytical Method: Trivalent Chromium Calculation          |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Chromium, Trivalent  | 6.3     | mg/kg | 1.0   |       | 1  |                | 04/23/20 07:38 | 16065-83-1 |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-105 (2-3)**      **Lab ID: 50253160005**      Collected: 03/23/20 10:10      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL   | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|-------|-------|----|----------------|----------------|------------|------|
| <b>6010 MET ICP</b>  |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050   |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Arsenic  | <2090   | ug/kg | 2090  | 2090  | 1  | 03/31/20 06:15 | 04/05/20 14:06 | 7440-38-2  |      |
| Barium   | 18200   | ug/kg | 1040  | 1040  | 1  | 03/31/20 06:15 | 04/05/20 14:06 | 7440-39-3  |      |
| Chromium   | 5590    | ug/kg | 2090  | 2090  | 1  | 03/31/20 06:15 | 04/05/20 14:06 | 7440-47-3  |      |
| Lead   | <10400  | ug/kg | 10400 | 10400 | 1  | 03/31/20 06:15 | 04/05/20 14:06 | 7439-92-1  |      |
| <b>6020 MET ICPMS</b>                                      |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B  |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Cadmium  | <221    | ug/kg | 221   | 221   | 1  | 03/30/20 10:20 | 03/31/20 11:03 | 7440-43-9  |      |
| Selenium   | <1100   | ug/kg | 1100  | 1100  | 5  | 03/30/20 10:20 | 03/31/20 07:56 | 7782-49-2  | D3   |
| Silver   | <110    | ug/kg | 110   | 110   | 1  | 03/30/20 10:20 | 03/31/20 11:03 | 7440-22-4  |      |
| <b>7471 Mercury</b>  |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471   |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Mercury  | <62.7   | ug/kg | 112   | 62.7  | 1  | 04/03/20 12:46 | 04/06/20 08:48 | 7439-97-6  |      |
| <b>Percent Moisture</b>                                    |         |       |       |       |    |                |                |            |      |
| Analytical Method: SM 2540G                                |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Percent Moisture   | 10.3    | %     | 0.10  | 0.10  | 1  |                | 04/01/20 08:37 |            |      |
| <b>7196 Chromium, Hexavalent</b>                           |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 7196A Preparation Method: EPA 3060A |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Chromium, Hexavalent                                       | <2.2    | mg/kg | 2.2   | 2.2   | 1  | 04/17/20 09:08 | 04/18/20 10:02 | 18540-29-9 |      |
| <b>Trivalent Chromium Calculation</b>                      |         |       |       |       |    |                |                |            |      |
| Analytical Method: Trivalent Chromium Calculation          |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Chromium, Trivalent  | 5.6     | mg/kg | 1.0   |       | 1  |                | 04/23/20 07:38 | 16065-83-1 |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-106 (2-3)**      **Lab ID: 50253160006**      Collected: 03/25/20 08:10      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|------|------|----|----------------|----------------|------------|------|
| <b>6010 MET ICP</b>  |         |       |      |      |    |                |                |            |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050   |         |       |      |      |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |      |      |    |                |                |            |      |
| Arsenic  | <1960   | ug/kg | 1960 | 1960 | 1  | 03/31/20 06:15 | 04/05/20 14:08 | 7440-38-2  |      |
| Barium   | 5360    | ug/kg | 979  | 979  | 1  | 03/31/20 06:15 | 04/05/20 14:08 | 7440-39-3  |      |
| Chromium   | 5720    | ug/kg | 1960 | 1960 | 1  | 03/31/20 06:15 | 04/05/20 14:08 | 7440-47-3  |      |
| Lead   | <9790   | ug/kg | 9790 | 9790 | 1  | 03/31/20 06:15 | 04/05/20 14:08 | 7439-92-1  |      |
| <b>6020 MET ICPMS</b>                                      |         |       |      |      |    |                |                |            |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B  |         |       |      |      |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |      |      |    |                |                |            |      |
| Cadmium  | <205    | ug/kg | 205  | 205  | 1  | 03/30/20 10:20 | 03/31/20 11:17 | 7440-43-9  |      |
| Selenium   | <1030   | ug/kg | 1030 | 1030 | 5  | 03/30/20 10:20 | 03/31/20 08:09 | 7782-49-2  | D3   |
| Silver   | <103    | ug/kg | 103  | 103  | 1  | 03/30/20 10:20 | 03/31/20 11:17 | 7440-22-4  |      |
| <b>7471 Mercury</b>  |         |       |      |      |    |                |                |            |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471   |         |       |      |      |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |      |      |    |                |                |            |      |
| Mercury  | <58.9   | ug/kg | 105  | 58.9 | 1  | 04/03/20 12:46 | 04/06/20 08:50 | 7439-97-6  |      |
| <b>Percent Moisture</b>                                    |         |       |      |      |    |                |                |            |      |
| Analytical Method: SM 2540G                                |         |       |      |      |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |      |      |    |                |                |            |      |
| Percent Moisture   | 5.6     | %     | 0.10 | 0.10 | 1  |                | 04/01/20 08:37 |            |      |
| <b>7196 Chromium, Hexavalent</b>                           |         |       |      |      |    |                |                |            |      |
| Analytical Method: EPA 7196A Preparation Method: EPA 3060A |         |       |      |      |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |      |      |    |                |                |            |      |
| Chromium, Hexavalent                                       | <2.1    | mg/kg | 2.1  | 2.1  | 1  | 04/17/20 09:08 | 04/18/20 10:02 | 18540-29-9 |      |
| <b>Trivalent Chromium Calculation</b>                      |         |       |      |      |    |                |                |            |      |
| Analytical Method: Trivalent Chromium Calculation          |         |       |      |      |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |      |      |    |                |                |            |      |
| Chromium, Trivalent  | 5.7     | mg/kg | 1.0  |      | 1  |                | 04/23/20 07:38 | 16065-83-1 |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-107 (2-3)**      **Lab ID: 50253160007**      Collected: 03/25/20 08:50      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL   | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|-------|-------|----|----------------|----------------|------------|------|
| <b>6010 MET ICP</b>  |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050   |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Arsenic  | <2180   | ug/kg | 2180  | 2180  | 1  | 03/31/20 06:15 | 04/05/20 14:10 | 7440-38-2  |      |
| Barium   | 9360    | ug/kg | 1090  | 1090  | 1  | 03/31/20 06:15 | 04/05/20 14:10 | 7440-39-3  |      |
| Chromium   | 8840    | ug/kg | 2180  | 2180  | 1  | 03/31/20 06:15 | 04/05/20 14:10 | 7440-47-3  |      |
| Lead   | <10900  | ug/kg | 10900 | 10900 | 1  | 03/31/20 06:15 | 04/05/20 14:10 | 7439-92-1  |      |
| <b>6020 MET ICPMS</b>                                      |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B  |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Cadmium  | <210    | ug/kg | 210   | 210   | 1  | 03/30/20 10:20 | 03/31/20 11:22 | 7440-43-9  |      |
| Selenium   | <1050   | ug/kg | 1050  | 1050  | 5  | 03/30/20 10:20 | 03/31/20 08:14 | 7782-49-2  | D3   |
| Silver   | <105    | ug/kg | 105   | 105   | 1  | 03/30/20 10:20 | 03/31/20 11:22 | 7440-22-4  |      |
| <b>7471 Mercury</b>  |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471   |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Mercury  | <60.1   | ug/kg | 107   | 60.1  | 1  | 04/03/20 12:46 | 04/06/20 08:53 | 7439-97-6  |      |
| <b>Percent Moisture</b>                                    |         |       |       |       |    |                |                |            |      |
| Analytical Method: SM 2540G                                |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Percent Moisture   | 9.9     | %     | 0.10  | 0.10  | 1  |                | 04/01/20 08:37 |            |      |
| <b>7196 Chromium, Hexavalent</b>                           |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 7196A Preparation Method: EPA 3060A |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Chromium, Hexavalent                                       | <2.2    | mg/kg | 2.2   | 2.2   | 1  | 04/17/20 09:08 | 04/18/20 10:02 | 18540-29-9 |      |
| <b>Trivalent Chromium Calculation</b>                      |         |       |       |       |    |                |                |            |      |
| Analytical Method: Trivalent Chromium Calculation          |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Chromium, Trivalent  | 8.8     | mg/kg | 1.0   |       | 1  |                | 04/23/20 07:38 | 16065-83-1 |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-108 (2-3)**      **Lab ID: 50253160008**      Collected: 03/25/20 09:09      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|------|------|----|----------------|----------------|------------|------|
| <b>6010 MET ICP</b>  |         |       |      |      |    |                |                |            |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050   |         |       |      |      |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |      |      |    |                |                |            |      |
| Arsenic  | <1960   | ug/kg | 1960 | 1960 | 1  | 03/31/20 06:15 | 04/05/20 14:12 | 7440-38-2  |      |
| Barium   | 12200   | ug/kg | 982  | 982  | 1  | 03/31/20 06:15 | 04/05/20 14:12 | 7440-39-3  |      |
| Chromium   | 7220    | ug/kg | 1960 | 1960 | 1  | 03/31/20 06:15 | 04/05/20 14:12 | 7440-47-3  |      |
| Lead   | <9820   | ug/kg | 9820 | 9820 | 1  | 03/31/20 06:15 | 04/05/20 14:12 | 7439-92-1  |      |
| <b>6020 MET ICPMS</b>                                      |         |       |      |      |    |                |                |            |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B  |         |       |      |      |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |      |      |    |                |                |            |      |
| Cadmium  | <209    | ug/kg | 209  | 209  | 1  | 03/30/20 10:20 | 03/31/20 11:31 | 7440-43-9  |      |
| Selenium   | <2090   | ug/kg | 2090 | 2090 | 10 | 03/30/20 10:20 | 04/02/20 03:39 | 7782-49-2  | D3   |
| Silver   | <105    | ug/kg | 105  | 105  | 1  | 03/30/20 10:20 | 03/31/20 11:31 | 7440-22-4  |      |
| <b>7471 Mercury</b>  |         |       |      |      |    |                |                |            |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471   |         |       |      |      |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |      |      |    |                |                |            |      |
| Mercury  | <64.0   | ug/kg | 114  | 64.0 | 1  | 04/03/20 12:46 | 04/06/20 08:55 | 7439-97-6  |      |
| <b>Percent Moisture</b>                                    |         |       |      |      |    |                |                |            |      |
| Analytical Method: SM 2540G                                |         |       |      |      |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |      |      |    |                |                |            |      |
| Percent Moisture   | 9.2     | %     | 0.10 | 0.10 | 1  |                | 04/01/20 08:37 |            |      |
| <b>7196 Chromium, Hexavalent</b>                           |         |       |      |      |    |                |                |            |      |
| Analytical Method: EPA 7196A Preparation Method: EPA 3060A |         |       |      |      |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |      |      |    |                |                |            |      |
| Chromium, Hexavalent                                       | <2.2    | mg/kg | 2.2  | 2.2  | 1  | 04/17/20 09:08 | 04/18/20 10:03 | 18540-29-9 |      |
| <b>Trivalent Chromium Calculation</b>                      |         |       |      |      |    |                |                |            |      |
| Analytical Method: Trivalent Chromium Calculation          |         |       |      |      |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |      |      |    |                |                |            |      |
| Chromium, Trivalent  | 7.2     | mg/kg | 1.0  |      | 1  |                | 04/23/20 07:38 | 16065-83-1 |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-109 (1-2)**      **Lab ID: 50253160009**      Collected: 03/25/20 09:35      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL   | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|-------|-------|----|----------------|----------------|------------|------|
| <b>6010 MET ICP</b>  |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050   |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Arsenic  | <2040   | ug/kg | 2040  | 2040  | 1  | 03/31/20 06:15 | 04/05/20 14:14 | 7440-38-2  |      |
| Barium   | 13900   | ug/kg | 1020  | 1020  | 1  | 03/31/20 06:15 | 04/05/20 14:14 | 7440-39-3  |      |
| Chromium   | 5420    | ug/kg | 2040  | 2040  | 1  | 03/31/20 06:15 | 04/05/20 14:14 | 7440-47-3  |      |
| Lead   | <10200  | ug/kg | 10200 | 10200 | 1  | 03/31/20 06:15 | 04/05/20 14:14 | 7439-92-1  |      |
| <b>6020 MET ICPMS</b>                                      |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B  |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Cadmium  | <211    | ug/kg | 211   | 211   | 1  | 03/30/20 10:20 | 03/31/20 11:45 | 7440-43-9  |      |
| Selenium   | <1050   | ug/kg | 1050  | 1050  | 5  | 03/30/20 10:20 | 03/31/20 08:23 | 7782-49-2  | D3   |
| Silver   | <105    | ug/kg | 105   | 105   | 1  | 03/30/20 10:20 | 03/31/20 11:45 | 7440-22-4  |      |
| <b>7471 Mercury</b>  |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471   |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Mercury  | <60.7   | ug/kg | 108   | 60.7  | 1  | 04/03/20 12:47 | 04/06/20 09:29 | 7439-97-6  |      |
| <b>Percent Moisture</b>                                    |         |       |       |       |    |                |                |            |      |
| Analytical Method: SM 2540G                                |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Percent Moisture   | 8.3     | %     | 0.10  | 0.10  | 1  |                | 04/01/20 09:01 |            |      |
| <b>7196 Chromium, Hexavalent</b>                           |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 7196A Preparation Method: EPA 3060A |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Chromium, Hexavalent                                       | <2.2    | mg/kg | 2.2   | 2.2   | 1  | 04/17/20 09:08 | 04/18/20 10:03 | 18540-29-9 |      |
| <b>Trivalent Chromium Calculation</b>                      |         |       |       |       |    |                |                |            |      |
| Analytical Method: Trivalent Chromium Calculation          |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Chromium, Trivalent  | 5.4     | mg/kg | 1.0   |       | 1  |                | 04/23/20 07:38 | 16065-83-1 |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-110 (1-2)**      **Lab ID: 50253160010**      Collected: 03/25/20 10:00      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL   | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|-------|-------|----|----------------|----------------|------------|------|
| <b>6010 MET ICP</b>  |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050   |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Arsenic  | <2100   | ug/kg | 2100  | 2100  | 1  | 03/31/20 06:15 | 04/05/20 14:16 | 7440-38-2  |      |
| Barium   | 9050    | ug/kg | 1050  | 1050  | 1  | 03/31/20 06:15 | 04/05/20 14:16 | 7440-39-3  |      |
| Chromium   | 5330    | ug/kg | 2100  | 2100  | 1  | 03/31/20 06:15 | 04/05/20 14:16 | 7440-47-3  |      |
| Lead   | <10500  | ug/kg | 10500 | 10500 | 1  | 03/31/20 06:15 | 04/05/20 14:16 | 7439-92-1  |      |
| <b>6020 MET ICPMS</b>                                      |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B  |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Cadmium  | <202    | ug/kg | 202   | 202   | 1  | 03/30/20 10:20 | 03/31/20 11:49 | 7440-43-9  |      |
| Selenium   | <2020   | ug/kg | 2020  | 2020  | 10 | 03/30/20 10:20 | 04/02/20 03:43 | 7782-49-2  | D3   |
| Silver   | <101    | ug/kg | 101   | 101   | 1  | 03/30/20 10:20 | 03/31/20 11:49 | 7440-22-4  |      |
| <b>7471 Mercury</b>  |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471   |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Mercury  | <57.7   | ug/kg | 103   | 57.7  | 1  | 04/03/20 12:47 | 04/06/20 09:37 | 7439-97-6  |      |
| <b>Percent Moisture</b>                                    |         |       |       |       |    |                |                |            |      |
| Analytical Method: SM 2540G                                |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Percent Moisture   | 6.6     | %     | 0.10  | 0.10  | 1  |                | 04/01/20 09:02 |            |      |
| <b>7196 Chromium, Hexavalent</b>                           |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 7196A Preparation Method: EPA 3060A |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Chromium, Hexavalent                                       | <2.1    | mg/kg | 2.1   | 2.1   | 1  | 04/17/20 09:08 | 04/18/20 10:03 | 18540-29-9 |      |
| <b>Trivalent Chromium Calculation</b>                      |         |       |       |       |    |                |                |            |      |
| Analytical Method: Trivalent Chromium Calculation          |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Chromium, Trivalent  | 5.3     | mg/kg | 1.0   |       | 1  |                | 04/23/20 07:38 | 16065-83-1 |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-111 (3-4)**      **Lab ID: 50253160011**      Collected: 03/25/20 10:30      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL   | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|-------|-------|----|----------------|----------------|------------|------|
| <b>6010 MET ICP</b>  |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050   |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Arsenic  | <2030   | ug/kg | 2030  | 2030  | 1  | 03/31/20 06:15 | 04/05/20 14:18 | 7440-38-2  |      |
| Barium   | 7070    | ug/kg | 1010  | 1010  | 1  | 03/31/20 06:15 | 04/05/20 14:18 | 7440-39-3  |      |
| Chromium   | 5420    | ug/kg | 2030  | 2030  | 1  | 03/31/20 06:15 | 04/05/20 14:18 | 7440-47-3  |      |
| Lead   | <10100  | ug/kg | 10100 | 10100 | 1  | 03/31/20 06:15 | 04/05/20 14:18 | 7439-92-1  |      |
| <b>6020 MET ICPMS</b>                                      |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B  |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Cadmium  | <198    | ug/kg | 198   | 198   | 1  | 03/30/20 10:20 | 03/31/20 11:58 | 7440-43-9  |      |
| Selenium   | <990    | ug/kg | 990   | 990   | 5  | 03/30/20 10:20 | 03/31/20 08:41 | 7782-49-2  | D3   |
| Silver   | <99.0   | ug/kg | 99.0  | 99.0  | 1  | 03/30/20 10:20 | 03/31/20 11:58 | 7440-22-4  |      |
| <b>7471 Mercury</b>  |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471   |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Mercury  | <57.8   | ug/kg | 103   | 57.8  | 1  | 04/03/20 12:47 | 04/06/20 09:39 | 7439-97-6  |      |
| <b>Percent Moisture</b>                                    |         |       |       |       |    |                |                |            |      |
| Analytical Method: SM 2540G                                |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Percent Moisture   | 5.0     | %     | 0.10  | 0.10  | 1  |                | 04/01/20 09:02 |            |      |
| <b>7196 Chromium, Hexavalent</b>                           |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 7196A Preparation Method: EPA 3060A |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Chromium, Hexavalent                                       | <2.1    | mg/kg | 2.1   | 2.1   | 1  | 04/17/20 09:08 | 04/18/20 10:03 | 18540-29-9 |      |
| <b>Trivalent Chromium Calculation</b>                      |         |       |       |       |    |                |                |            |      |
| Analytical Method: Trivalent Chromium Calculation          |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Chromium, Trivalent  | 5.4     | mg/kg | 1.0   |       | 1  |                | 04/23/20 07:38 | 16065-83-1 |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-112 (3-4)**      **Lab ID: 50253160012**      Collected: 03/25/20 10:50      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL   | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|-------|-------|----|----------------|----------------|------------|------|
| <b>6010 MET ICP</b>  |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050   |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Arsenic  | <2020   | ug/kg | 2020  | 2020  | 1  | 03/31/20 06:15 | 04/05/20 14:24 | 7440-38-2  |      |
| Barium   | 8750    | ug/kg | 1010  | 1010  | 1  | 03/31/20 06:15 | 04/05/20 14:24 | 7440-39-3  |      |
| Chromium   | 4670    | ug/kg | 2020  | 2020  | 1  | 03/31/20 06:15 | 04/05/20 14:24 | 7440-47-3  |      |
| Lead   | <10100  | ug/kg | 10100 | 10100 | 1  | 03/31/20 06:15 | 04/05/20 14:24 | 7439-92-1  |      |
| <b>6020 MET ICPMS</b>                                      |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B  |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Cadmium  | <219    | ug/kg | 219   | 219   | 1  | 03/30/20 10:20 | 03/31/20 12:12 | 7440-43-9  |      |
| Selenium   | <1100   | ug/kg | 1100  | 1100  | 5  | 03/30/20 10:20 | 03/31/20 08:46 | 7782-49-2  | D3   |
| Silver   | <110    | ug/kg | 110   | 110   | 1  | 03/30/20 10:20 | 03/31/20 12:12 | 7440-22-4  |      |
| <b>7471 Mercury</b>  |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471   |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Mercury  | <66.7   | ug/kg | 119   | 66.7  | 1  | 04/03/20 12:47 | 04/06/20 09:41 | 7439-97-6  |      |
| <b>Percent Moisture</b>                                    |         |       |       |       |    |                |                |            |      |
| Analytical Method: SM 2540G                                |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Percent Moisture   | 13.4    | %     | 0.10  | 0.10  | 1  |                | 04/01/20 09:02 |            |      |
| <b>7196 Chromium, Hexavalent</b>                           |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 7196A Preparation Method: EPA 3060A |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Chromium, Hexavalent                                       | <2.3    | mg/kg | 2.3   | 2.3   | 1  | 04/17/20 09:08 | 04/18/20 10:03 | 18540-29-9 |      |
| <b>Trivalent Chromium Calculation</b>                      |         |       |       |       |    |                |                |            |      |
| Analytical Method: Trivalent Chromium Calculation          |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Chromium, Trivalent  | 4.7     | mg/kg | 1.0   |       | 1  |                | 04/23/20 07:38 | 16065-83-1 |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-104 (14-15')** Lab ID: **50253160013** Collected: 03/23/20 12:30 Received: 03/27/20 08:10 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                 |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                      |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                         |         |       |        |      |    |                |                |           |      |
| n-Butanol   | <5240   | ug/kg | 5240   | 5240 | 1  |                | 03/30/20 22:21 | 71-36-3   |      |
| Ethanol   | <2980   | ug/kg | 2980   | 2980 | 1  |                | 03/30/20 22:21 | 64-17-5   | B0   |
| Methanol  | 18900   | ug/kg | 5240   | 5240 | 1  |                | 03/30/20 22:21 | 67-56-1   | B0   |
| <b>8270 PAH Soil</b>  |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                         |         |       |        |      |    |                |                |           |      |
| Acenaphthene  | <388    | ug/kg | 388    | 388  | 1  | 04/03/20 09:30 | 04/03/20 19:28 | 83-32-9   |      |
| Acenaphthylene  | <388    | ug/kg | 388    | 388  | 1  | 04/03/20 09:30 | 04/03/20 19:28 | 208-96-8  |      |
| Anthracene  | <388    | ug/kg | 388    | 388  | 1  | 04/03/20 09:30 | 04/03/20 19:28 | 120-12-7  |      |
| Benzo(a)anthracene  | <388    | ug/kg | 388    | 388  | 1  | 04/03/20 09:30 | 04/03/20 19:28 | 56-55-3   |      |
| Benzo(a)pyrene  | <388    | ug/kg | 388    | 388  | 1  | 04/03/20 09:30 | 04/03/20 19:28 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <388    | ug/kg | 388    | 388  | 1  | 04/03/20 09:30 | 04/03/20 19:28 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <388    | ug/kg | 388    | 388  | 1  | 04/03/20 09:30 | 04/03/20 19:28 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <388    | ug/kg | 388    | 388  | 1  | 04/03/20 09:30 | 04/03/20 19:28 | 207-08-9  |      |
| Chrysene  | <388    | ug/kg | 388    | 388  | 1  | 04/03/20 09:30 | 04/03/20 19:28 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | <388    | ug/kg | 388    | 388  | 1  | 04/03/20 09:30 | 04/03/20 19:28 | 53-70-3   |      |
| Fluoranthene  | <388    | ug/kg | 388    | 388  | 1  | 04/03/20 09:30 | 04/03/20 19:28 | 206-44-0  |      |
| Fluorene  | <388    | ug/kg | 388    | 388  | 1  | 04/03/20 09:30 | 04/03/20 19:28 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene  | <388    | ug/kg | 388    | 388  | 1  | 04/03/20 09:30 | 04/03/20 19:28 | 193-39-5  |      |
| 2-Methylnaphthalene   | <388    | ug/kg | 388    | 388  | 1  | 04/03/20 09:30 | 04/03/20 19:28 | 91-57-6   |      |
| Naphthalene   | <388    | ug/kg | 388    | 388  | 1  | 04/03/20 09:30 | 04/03/20 19:28 | 91-20-3   |      |
| Phenanthrene  | <388    | ug/kg | 388    | 388  | 1  | 04/03/20 09:30 | 04/03/20 19:28 | 85-01-8   |      |
| Pyrene  | <388    | ug/kg | 388    | 388  | 1  | 04/03/20 09:30 | 04/03/20 19:28 | 129-00-0  |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| 2-Fluorobiphenyl (S)  | 55      | %     | 37-111 |      | 1  | 04/03/20 09:30 | 04/03/20 19:28 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 63      | %     | 29-124 |      | 1  | 04/03/20 09:30 | 04/03/20 19:28 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                                  |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                                     |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                         |         |       |        |      |    |                |                |           |      |
| Acetone   | <1900   | ug/kg | 1900   | 1900 | 1  |                | 04/03/20 17:06 | 67-64-1   |      |
| Acrylonitrile   | <190    | ug/kg | 190    | 190  | 1  |                | 04/03/20 17:06 | 107-13-1  |      |
| tert-Amylmethyl ether   | <474    | ug/kg | 474    | 474  | 1  |                | 04/03/20 17:06 | 994-05-8  | N2   |
| Benzene   | <94.9   | ug/kg | 94.9   | 94.9 | 1  |                | 04/03/20 17:06 | 71-43-2   |      |
| Bromobenzene  | <190    | ug/kg | 190    | 190  | 1  |                | 04/03/20 17:06 | 108-86-1  |      |
| Bromochloromethane  | <47.4   | ug/kg | 94.9   | 47.4 | 1  |                | 04/03/20 17:06 | 74-97-5   |      |
| Bromodichloromethane  | <190    | ug/kg | 190    | 190  | 1  |                | 04/03/20 17:06 | 75-27-4   |      |
| Bromoform   | <190    | ug/kg | 190    | 190  | 1  |                | 04/03/20 17:06 | 75-25-2   |      |
| Bromomethane  | <379    | ug/kg | 379    | 379  | 1  |                | 04/03/20 17:06 | 74-83-9   | L1   |
| 2-Butanone (MEK)  | <1420   | ug/kg | 1420   | 1420 | 1  |                | 04/03/20 17:06 | 78-93-3   |      |
| tert-Butyl Alcohol  | <4740   | ug/kg | 4740   | 4740 | 1  |                | 04/03/20 17:06 | 75-65-0   |      |
| n-Butylbenzene  | <94.9   | ug/kg | 94.9   | 94.9 | 1  |                | 04/03/20 17:06 | 104-51-8  |      |
| sec-Butylbenzene  | <94.9   | ug/kg | 94.9   | 94.9 | 1  |                | 04/03/20 17:06 | 135-98-8  |      |
| tert-Butylbenzene   | <94.9   | ug/kg | 94.9   | 94.9 | 1  |                | 04/03/20 17:06 | 98-06-6   |      |
| Carbon disulfide  | <474    | ug/kg | 474    | 474  | 1  |                | 04/03/20 17:06 | 75-15-0   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-104 (14-15')**      **Lab ID: 50253160013**      Collected: 03/23/20 12:30      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Carbon tetrachloride           | <94.9   | ug/kg  | 94.9 | 94.9 | 1  |          | 04/03/20 17:06 | 56-23-5    |      |
| Chlorobenzene                  | <94.9   | ug/kg  | 94.9 | 94.9 | 1  |          | 04/03/20 17:06 | 108-90-7   |      |
| Chloroethane                   | <474    | ug/kg  | 474  | 474  | 1  |          | 04/03/20 17:06 | 75-00-3    |      |
| Chloroform                     | <94.9   | ug/kg  | 94.9 | 94.9 | 1  |          | 04/03/20 17:06 | 67-66-3    |      |
| Chloromethane                  | <474    | ug/kg  | 474  | 474  | 1  |          | 04/03/20 17:06 | 74-87-3    |      |
| Cyclohexane                    | <949    | ug/kg  | 949  | 949  | 1  |          | 04/03/20 17:06 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <94.9   | ug/kg  | 94.9 | 94.9 | 1  |          | 04/03/20 17:06 | 96-12-8    |      |
| Dibromochloromethane           | <190    | ug/kg  | 190  | 190  | 1  |          | 04/03/20 17:06 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <94.9   | ug/kg  | 94.9 | 94.9 | 1  |          | 04/03/20 17:06 | 106-93-4   |      |
| Dibromomethane                 | <474    | ug/kg  | 474  | 474  | 1  |          | 04/03/20 17:06 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <190    | ug/kg  | 190  | 190  | 1  |          | 04/03/20 17:06 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <190    | ug/kg  | 190  | 190  | 1  |          | 04/03/20 17:06 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <190    | ug/kg  | 190  | 190  | 1  |          | 04/03/20 17:06 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <190    | ug/kg  | 1900 | 190  | 1  |          | 04/03/20 17:06 | 110-57-6   |      |
| Dichlorodifluoromethane        | <474    | ug/kg  | 474  | 474  | 1  |          | 04/03/20 17:06 | 75-71-8    |      |
| 1,1-Dichloroethane             | <94.9   | ug/kg  | 94.9 | 94.9 | 1  |          | 04/03/20 17:06 | 75-34-3    |      |
| 1,2-Dichloroethane             | <94.9   | ug/kg  | 94.9 | 94.9 | 1  |          | 04/03/20 17:06 | 107-06-2   |      |
| 1,1-Dichloroethene             | <94.9   | ug/kg  | 94.9 | 94.9 | 1  |          | 04/03/20 17:06 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <94.9   | ug/kg  | 94.9 | 94.9 | 1  |          | 04/03/20 17:06 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <94.9   | ug/kg  | 94.9 | 94.9 | 1  |          | 04/03/20 17:06 | 156-60-5   |      |
| 1,2-Dichloropropane            | <94.9   | ug/kg  | 94.9 | 94.9 | 1  |          | 04/03/20 17:06 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <190    | ug/kg  | 190  | 190  | 1  |          | 04/03/20 17:06 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <190    | ug/kg  | 190  | 190  | 1  |          | 04/03/20 17:06 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <379    | ug/kg  | 379  | 379  | 1  |          | 04/03/20 17:06 | 60-29-7    |      |
| Diisopropyl ether              | <474    | ug/kg  | 474  | 474  | 1  |          | 04/03/20 17:06 | 108-20-3   | N2   |
| Ethylbenzene                   | <94.9   | ug/kg  | 94.9 | 94.9 | 1  |          | 04/03/20 17:06 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <474    | ug/kg  | 474  | 474  | 1  |          | 04/03/20 17:06 | 637-92-3   | N2   |
| Hexachloroethane               | <569    | ug/kg  | 569  | 569  | 1  |          | 04/03/20 17:06 | 67-72-1    | N2   |
| 2-Hexanone                     | <4740   | ug/kg  | 4740 | 4740 | 1  |          | 04/03/20 17:06 | 591-78-6   |      |
| Iodomethane                    | <190    | ug/kg  | 1900 | 190  | 1  |          | 04/03/20 17:06 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <474    | ug/kg  | 474  | 474  | 1  |          | 04/03/20 17:06 | 98-82-8    |      |
| p-Isopropyltoluene             | <47.4   | ug/kg  | 94.9 | 47.4 | 1  |          | 04/03/20 17:06 | 99-87-6    |      |
| Methylene Chloride             | <190    | ug/kg  | 190  | 190  | 1  |          | 04/03/20 17:06 | 75-09-2    |      |
| 2-Methylnaphthalene            | <626    | ug/kg  | 626  | 626  | 1  |          | 04/03/20 17:06 | 91-57-6    | N2   |
| 4-Methyl-2-pentanone (MIBK)    | <4740   | ug/kg  | 4740 | 4740 | 1  |          | 04/03/20 17:06 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <474    | ug/kg  | 474  | 474  | 1  |          | 04/03/20 17:06 | 1634-04-4  |      |
| Naphthalene                    | <626    | ug/kg  | 626  | 626  | 1  |          | 04/03/20 17:06 | 91-20-3    |      |
| n-Propylbenzene                | <190    | ug/kg  | 190  | 190  | 1  |          | 04/03/20 17:06 | 103-65-1   |      |
| Styrene                        | <94.9   | ug/kg  | 94.9 | 94.9 | 1  |          | 04/03/20 17:06 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <190    | ug/kg  | 190  | 190  | 1  |          | 04/03/20 17:06 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane      | <94.9   | ug/kg  | 94.9 | 94.9 | 1  |          | 04/03/20 17:06 | 79-34-5    |      |
| Tetrachloroethene              | <94.9   | ug/kg  | 94.9 | 94.9 | 1  |          | 04/03/20 17:06 | 127-18-4   |      |
| Tetrahydrofuran                | <1900   | ug/kg  | 1900 | 1900 | 1  |          | 04/03/20 17:06 | 109-99-9   | N2   |
| Toluene                        | <190    | ug/kg  | 190  | 190  | 1  |          | 04/03/20 17:06 | 108-88-3   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-104 (14-15')**      **Lab ID: 50253160013**      Collected: 03/23/20 12:30      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| 1,2,3-Trichlorobenzene                  | <474    | ug/kg | 474    | 474  | 1  |          | 04/03/20 17:06 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <474    | ug/kg | 474    | 474  | 1  |          | 04/03/20 17:06 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <94.9   | ug/kg | 94.9   | 94.9 | 1  |          | 04/03/20 17:06 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <94.9   | ug/kg | 94.9   | 94.9 | 1  |          | 04/03/20 17:06 | 79-00-5     |      |
| Trichloroethene                         | <94.9   | ug/kg | 94.9   | 94.9 | 1  |          | 04/03/20 17:06 | 79-01-6     |      |
| Trichlorofluoromethane                  | <190    | ug/kg | 190    | 190  | 1  |          | 04/03/20 17:06 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <190    | ug/kg | 190    | 190  | 1  |          | 04/03/20 17:06 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <474    | ug/kg | 474    | 474  | 1  |          | 04/03/20 17:06 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <190    | ug/kg | 190    | 190  | 1  |          | 04/03/20 17:06 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <190    | ug/kg | 190    | 190  | 1  |          | 04/03/20 17:06 | 108-67-8    |      |
| Vinyl chloride                          | <75.9   | ug/kg | 75.9   | 75.9 | 1  |          | 04/03/20 17:06 | 75-01-4     |      |
| m&p-Xylene                              | <47.4   | ug/kg | 94.9   | 47.4 | 1  |          | 04/03/20 17:06 | 179601-23-1 |      |
| o-Xylene                                | <47.4   | ug/kg | 94.9   | 47.4 | 1  |          | 04/03/20 17:06 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 113     | %     | 62-137 |      | 1  |          | 04/03/20 17:06 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 116     | %     | 64-139 |      | 1  |          | 04/03/20 17:06 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 104     | %     | 60-142 |      | 1  |          | 04/03/20 17:06 | 460-00-4    |      |
| <b>Percent Moisture</b>                 |         |       |        |      |    |          |                |             |      |
| Analytical Method: SM 2540G             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Percent Moisture                        | 16.0    | %     | 0.10   | 0.10 | 1  |          | 04/01/20 09:02 |             |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-105 (12-13')**      **Lab ID: 50253160014**      Collected: 03/23/20 12:10      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                      |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                           |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |      |    |                |                |           |      |
| n-Butanol  | <5190   | ug/kg | 5190   | 5190 | 1  |                | 03/30/20 22:30 | 71-36-3   |      |
| Ethanol  | <2950   | ug/kg | 2950   | 2950 | 1  |                | 03/30/20 22:30 | 64-17-5   | B0   |
| Methanol   | 16000   | ug/kg | 5190   | 5190 | 1  |                | 03/30/20 22:30 | 67-56-1   | B0   |
| <b>8270 PAH Soil</b>   |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |      |    |                |                |           |      |
| Acenaphthene   | <389    | ug/kg | 389    | 389  | 1  | 04/03/20 09:30 | 04/03/20 19:45 | 83-32-9   |      |
| Acenaphthylene   | <389    | ug/kg | 389    | 389  | 1  | 04/03/20 09:30 | 04/03/20 19:45 | 208-96-8  |      |
| Anthracene   | <389    | ug/kg | 389    | 389  | 1  | 04/03/20 09:30 | 04/03/20 19:45 | 120-12-7  |      |
| Benzo(a)anthracene   | <389    | ug/kg | 389    | 389  | 1  | 04/03/20 09:30 | 04/03/20 19:45 | 56-55-3   |      |
| Benzo(a)pyrene   | <389    | ug/kg | 389    | 389  | 1  | 04/03/20 09:30 | 04/03/20 19:45 | 50-32-8   |      |
| Benzo(b)fluoranthene   | <389    | ug/kg | 389    | 389  | 1  | 04/03/20 09:30 | 04/03/20 19:45 | 205-99-2  |      |
| Benzo(g,h,i)perylene   | <389    | ug/kg | 389    | 389  | 1  | 04/03/20 09:30 | 04/03/20 19:45 | 191-24-2  |      |
| Benzo(k)fluoranthene   | <389    | ug/kg | 389    | 389  | 1  | 04/03/20 09:30 | 04/03/20 19:45 | 207-08-9  |      |
| Chrysene   | <389    | ug/kg | 389    | 389  | 1  | 04/03/20 09:30 | 04/03/20 19:45 | 218-01-9  |      |
| Dibenz(a,h)anthracene  | <389    | ug/kg | 389    | 389  | 1  | 04/03/20 09:30 | 04/03/20 19:45 | 53-70-3   |      |
| Fluoranthene   | <389    | ug/kg | 389    | 389  | 1  | 04/03/20 09:30 | 04/03/20 19:45 | 206-44-0  |      |
| Fluorene   | <389    | ug/kg | 389    | 389  | 1  | 04/03/20 09:30 | 04/03/20 19:45 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | <389    | ug/kg | 389    | 389  | 1  | 04/03/20 09:30 | 04/03/20 19:45 | 193-39-5  |      |
| 2-Methylnaphthalene  | <389    | ug/kg | 389    | 389  | 1  | 04/03/20 09:30 | 04/03/20 19:45 | 91-57-6   |      |
| Naphthalene  | <389    | ug/kg | 389    | 389  | 1  | 04/03/20 09:30 | 04/03/20 19:45 | 91-20-3   |      |
| Phenanthrene   | <389    | ug/kg | 389    | 389  | 1  | 04/03/20 09:30 | 04/03/20 19:45 | 85-01-8   |      |
| Pyrene   | <389    | ug/kg | 389    | 389  | 1  | 04/03/20 09:30 | 04/03/20 19:45 | 129-00-0  |      |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |           |      |
| 2-Fluorobiphenyl (S)   | 65      | %     | 37-111 |      | 1  | 04/03/20 09:30 | 04/03/20 19:45 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 75      | %     | 29-124 |      | 1  | 04/03/20 09:30 | 04/03/20 19:45 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                                       |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260  |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |      |    |                |                |           |      |
| Acetone  | <923    | ug/kg | 923    | 923  | 1  |                | 04/03/20 17:39 | 67-64-1   |      |
| Acrylonitrile  | <92.3   | ug/kg | 92.3   | 92.3 | 1  |                | 04/03/20 17:39 | 107-13-1  |      |
| tert-Amylmethyl ether  | <231    | ug/kg | 231    | 231  | 1  |                | 04/03/20 17:39 | 994-05-8  | N2   |
| Benzene  | <46.1   | ug/kg | 46.1   | 46.1 | 1  |                | 04/03/20 17:39 | 71-43-2   |      |
| Bromobenzene   | <92.3   | ug/kg | 92.3   | 92.3 | 1  |                | 04/03/20 17:39 | 108-86-1  |      |
| Bromochloromethane   | <23.1   | ug/kg | 46.1   | 23.1 | 1  |                | 04/03/20 17:39 | 74-97-5   |      |
| Bromodichloromethane   | <92.3   | ug/kg | 92.3   | 92.3 | 1  |                | 04/03/20 17:39 | 75-27-4   |      |
| Bromoform  | <92.3   | ug/kg | 92.3   | 92.3 | 1  |                | 04/03/20 17:39 | 75-25-2   |      |
| Bromomethane   | <185    | ug/kg | 185    | 185  | 1  |                | 04/03/20 17:39 | 74-83-9   | L1   |
| 2-Butanone (MEK)   | <692    | ug/kg | 692    | 692  | 1  |                | 04/03/20 17:39 | 78-93-3   |      |
| tert-Butyl Alcohol   | <2310   | ug/kg | 2310   | 2310 | 1  |                | 04/03/20 17:39 | 75-65-0   |      |
| n-Butylbenzene   | <46.1   | ug/kg | 46.1   | 46.1 | 1  |                | 04/03/20 17:39 | 104-51-8  |      |
| sec-Butylbenzene   | <46.1   | ug/kg | 46.1   | 46.1 | 1  |                | 04/03/20 17:39 | 135-98-8  |      |
| tert-Butylbenzene  | <46.1   | ug/kg | 46.1   | 46.1 | 1  |                | 04/03/20 17:39 | 98-06-6   |      |
| Carbon disulfide   | <231    | ug/kg | 231    | 231  | 1  |                | 04/03/20 17:39 | 75-15-0   |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale

Pace Project No.: 50253160

Sample: MW-105 (12-13') Lab ID: 50253160014 Collected: 03/23/20 12:10 Received: 03/27/20 08:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Carbon tetrachloride           | <46.1   | ug/kg  | 46.1 | 46.1 | 1  |          | 04/03/20 17:39 | 56-23-5    |      |
| Chlorobenzene                  | <46.1   | ug/kg  | 46.1 | 46.1 | 1  |          | 04/03/20 17:39 | 108-90-7   |      |
| Chloroethane                   | <231    | ug/kg  | 231  | 231  | 1  |          | 04/03/20 17:39 | 75-00-3    |      |
| Chloroform                     | <46.1   | ug/kg  | 46.1 | 46.1 | 1  |          | 04/03/20 17:39 | 67-66-3    |      |
| Chloromethane                  | <231    | ug/kg  | 231  | 231  | 1  |          | 04/03/20 17:39 | 74-87-3    |      |
| Cyclohexane                    | <461    | ug/kg  | 461  | 461  | 1  |          | 04/03/20 17:39 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <46.1   | ug/kg  | 46.1 | 46.1 | 1  |          | 04/03/20 17:39 | 96-12-8    |      |
| Dibromochloromethane           | <92.3   | ug/kg  | 92.3 | 92.3 | 1  |          | 04/03/20 17:39 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <46.1   | ug/kg  | 46.1 | 46.1 | 1  |          | 04/03/20 17:39 | 106-93-4   |      |
| Dibromomethane                 | <231    | ug/kg  | 231  | 231  | 1  |          | 04/03/20 17:39 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <92.3   | ug/kg  | 92.3 | 92.3 | 1  |          | 04/03/20 17:39 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <92.3   | ug/kg  | 92.3 | 92.3 | 1  |          | 04/03/20 17:39 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <92.3   | ug/kg  | 92.3 | 92.3 | 1  |          | 04/03/20 17:39 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <92.3   | ug/kg  | 92.3 | 92.3 | 1  |          | 04/03/20 17:39 | 110-57-6   |      |
| Dichlorodifluoromethane        | <231    | ug/kg  | 231  | 231  | 1  |          | 04/03/20 17:39 | 75-71-8    |      |
| 1,1-Dichloroethane             | <46.1   | ug/kg  | 46.1 | 46.1 | 1  |          | 04/03/20 17:39 | 75-34-3    |      |
| 1,2-Dichloroethane             | <46.1   | ug/kg  | 46.1 | 46.1 | 1  |          | 04/03/20 17:39 | 107-06-2   |      |
| 1,1-Dichloroethene             | <46.1   | ug/kg  | 46.1 | 46.1 | 1  |          | 04/03/20 17:39 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <46.1   | ug/kg  | 46.1 | 46.1 | 1  |          | 04/03/20 17:39 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <46.1   | ug/kg  | 46.1 | 46.1 | 1  |          | 04/03/20 17:39 | 156-60-5   |      |
| 1,2-Dichloropropane            | <46.1   | ug/kg  | 46.1 | 46.1 | 1  |          | 04/03/20 17:39 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <92.3   | ug/kg  | 92.3 | 92.3 | 1  |          | 04/03/20 17:39 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <92.3   | ug/kg  | 92.3 | 92.3 | 1  |          | 04/03/20 17:39 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <185    | ug/kg  | 185  | 185  | 1  |          | 04/03/20 17:39 | 60-29-7    |      |
| Diisopropyl ether              | <231    | ug/kg  | 231  | 231  | 1  |          | 04/03/20 17:39 | 108-20-3   | N2   |
| Ethylbenzene                   | <46.1   | ug/kg  | 46.1 | 46.1 | 1  |          | 04/03/20 17:39 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <231    | ug/kg  | 231  | 231  | 1  |          | 04/03/20 17:39 | 637-92-3   | N2   |
| Hexachloroethane               | <277    | ug/kg  | 277  | 277  | 1  |          | 04/03/20 17:39 | 67-72-1    | N2   |
| 2-Hexanone                     | <2310   | ug/kg  | 2310 | 2310 | 1  |          | 04/03/20 17:39 | 591-78-6   |      |
| Iodomethane                    | <92.3   | ug/kg  | 92.3 | 92.3 | 1  |          | 04/03/20 17:39 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <231    | ug/kg  | 231  | 231  | 1  |          | 04/03/20 17:39 | 98-82-8    |      |
| p-Isopropyltoluene             | <23.1   | ug/kg  | 46.1 | 23.1 | 1  |          | 04/03/20 17:39 | 99-87-6    |      |
| Methylene Chloride             | <92.3   | ug/kg  | 92.3 | 92.3 | 1  |          | 04/03/20 17:39 | 75-09-2    |      |
| 2-Methylnaphthalene            | <304    | ug/kg  | 304  | 304  | 1  |          | 04/03/20 17:39 | 91-57-6    | N2   |
| 4-Methyl-2-pentanone (MIBK)    | <2310   | ug/kg  | 2310 | 2310 | 1  |          | 04/03/20 17:39 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <231    | ug/kg  | 231  | 231  | 1  |          | 04/03/20 17:39 | 1634-04-4  |      |
| Naphthalene                    | <304    | ug/kg  | 304  | 304  | 1  |          | 04/03/20 17:39 | 91-20-3    |      |
| n-Propylbenzene                | <92.3   | ug/kg  | 92.3 | 92.3 | 1  |          | 04/03/20 17:39 | 103-65-1   |      |
| Styrene                        | <46.1   | ug/kg  | 46.1 | 46.1 | 1  |          | 04/03/20 17:39 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <92.3   | ug/kg  | 92.3 | 92.3 | 1  |          | 04/03/20 17:39 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane      | <46.1   | ug/kg  | 46.1 | 46.1 | 1  |          | 04/03/20 17:39 | 79-34-5    |      |
| Tetrachloroethene              | <46.1   | ug/kg  | 46.1 | 46.1 | 1  |          | 04/03/20 17:39 | 127-18-4   |      |
| Tetrahydrofuran                | <92.3   | ug/kg  | 92.3 | 92.3 | 1  |          | 04/03/20 17:39 | 109-99-9   | N2   |
| Toluene                        | <92.3   | ug/kg  | 92.3 | 92.3 | 1  |          | 04/03/20 17:39 | 108-88-3   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-105 (12-13')**      **Lab ID: 50253160014**      Collected: 03/23/20 12:10      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| 1,2,3-Trichlorobenzene                  | <231    | ug/kg | 231    | 231  | 1  |          | 04/03/20 17:39 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <231    | ug/kg | 231    | 231  | 1  |          | 04/03/20 17:39 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <46.1   | ug/kg | 46.1   | 46.1 | 1  |          | 04/03/20 17:39 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <46.1   | ug/kg | 46.1   | 46.1 | 1  |          | 04/03/20 17:39 | 79-00-5     |      |
| Trichloroethene                         | <46.1   | ug/kg | 46.1   | 46.1 | 1  |          | 04/03/20 17:39 | 79-01-6     |      |
| Trichlorofluoromethane                  | <92.3   | ug/kg | 92.3   | 92.3 | 1  |          | 04/03/20 17:39 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <92.3   | ug/kg | 92.3   | 92.3 | 1  |          | 04/03/20 17:39 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <231    | ug/kg | 231    | 231  | 1  |          | 04/03/20 17:39 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <92.3   | ug/kg | 92.3   | 92.3 | 1  |          | 04/03/20 17:39 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <92.3   | ug/kg | 92.3   | 92.3 | 1  |          | 04/03/20 17:39 | 108-67-8    |      |
| Vinyl chloride                          | <36.9   | ug/kg | 36.9   | 36.9 | 1  |          | 04/03/20 17:39 | 75-01-4     |      |
| m&p-Xylene                              | <23.1   | ug/kg | 46.1   | 23.1 | 1  |          | 04/03/20 17:39 | 179601-23-1 |      |
| o-Xylene                                | <23.1   | ug/kg | 46.1   | 23.1 | 1  |          | 04/03/20 17:39 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 124     | %     | 62-137 |      | 1  |          | 04/03/20 17:39 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 132     | %     | 64-139 |      | 1  |          | 04/03/20 17:39 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 120     | %     | 60-142 |      | 1  |          | 04/03/20 17:39 | 460-00-4    |      |
| <b>Percent Moisture</b>                 |         |       |        |      |    |          |                |             |      |
| Analytical Method: SM 2540G             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Percent Moisture                        | 15.2    | %     | 0.10   | 0.10 | 1  |          | 04/01/20 09:02 |             |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale

Pace Project No.: 50253160

**Sample: MW-106 (5-6)**      **Lab ID: 50253160015**      Collected: 03/25/20 08:22      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                      |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                           |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |      |    |                |                |           |      |
| n-Butanol  | <4810   | ug/kg | 4810   | 4810 | 1  |                | 03/30/20 22:40 | 71-36-3   |      |
| Ethanol  | <2730   | ug/kg | 2730   | 2730 | 1  |                | 03/30/20 22:40 | 64-17-5   | B0   |
| Methanol   | 15200   | ug/kg | 4810   | 4810 | 1  |                | 03/30/20 22:40 | 67-56-1   | B0   |
| <b>8270 PAH Soil</b>   |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |      |    |                |                |           |      |
| Acenaphthene   | <357    | ug/kg | 357    | 357  | 1  | 04/03/20 09:30 | 04/03/20 20:02 | 83-32-9   |      |
| Acenaphthylene   | <357    | ug/kg | 357    | 357  | 1  | 04/03/20 09:30 | 04/03/20 20:02 | 208-96-8  |      |
| Anthracene   | <357    | ug/kg | 357    | 357  | 1  | 04/03/20 09:30 | 04/03/20 20:02 | 120-12-7  |      |
| Benzo(a)anthracene   | <357    | ug/kg | 357    | 357  | 1  | 04/03/20 09:30 | 04/03/20 20:02 | 56-55-3   |      |
| Benzo(a)pyrene   | <357    | ug/kg | 357    | 357  | 1  | 04/03/20 09:30 | 04/03/20 20:02 | 50-32-8   |      |
| Benzo(b)fluoranthene   | <357    | ug/kg | 357    | 357  | 1  | 04/03/20 09:30 | 04/03/20 20:02 | 205-99-2  |      |
| Benzo(g,h,i)perylene   | <357    | ug/kg | 357    | 357  | 1  | 04/03/20 09:30 | 04/03/20 20:02 | 191-24-2  |      |
| Benzo(k)fluoranthene   | <357    | ug/kg | 357    | 357  | 1  | 04/03/20 09:30 | 04/03/20 20:02 | 207-08-9  |      |
| Chrysene   | <357    | ug/kg | 357    | 357  | 1  | 04/03/20 09:30 | 04/03/20 20:02 | 218-01-9  |      |
| Dibenz(a,h)anthracene  | <357    | ug/kg | 357    | 357  | 1  | 04/03/20 09:30 | 04/03/20 20:02 | 53-70-3   |      |
| Fluoranthene   | <357    | ug/kg | 357    | 357  | 1  | 04/03/20 09:30 | 04/03/20 20:02 | 206-44-0  |      |
| Fluorene   | <357    | ug/kg | 357    | 357  | 1  | 04/03/20 09:30 | 04/03/20 20:02 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | <357    | ug/kg | 357    | 357  | 1  | 04/03/20 09:30 | 04/03/20 20:02 | 193-39-5  |      |
| 2-Methylnaphthalene  | <357    | ug/kg | 357    | 357  | 1  | 04/03/20 09:30 | 04/03/20 20:02 | 91-57-6   |      |
| Naphthalene  | <357    | ug/kg | 357    | 357  | 1  | 04/03/20 09:30 | 04/03/20 20:02 | 91-20-3   |      |
| Phenanthrene   | <357    | ug/kg | 357    | 357  | 1  | 04/03/20 09:30 | 04/03/20 20:02 | 85-01-8   |      |
| Pyrene   | <357    | ug/kg | 357    | 357  | 1  | 04/03/20 09:30 | 04/03/20 20:02 | 129-00-0  |      |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |           |      |
| 2-Fluorobiphenyl (S)   | 58      | %     | 37-111 |      | 1  | 04/03/20 09:30 | 04/03/20 20:02 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 70      | %     | 29-124 |      | 1  | 04/03/20 09:30 | 04/03/20 20:02 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                                       |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260  |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |      |    |                |                |           |      |
| Acetone  | <1040   | ug/kg | 1040   | 1040 | 1  |                | 04/03/20 18:12 | 67-64-1   |      |
| Acrylonitrile  | <104    | ug/kg | 104    | 104  | 1  |                | 04/03/20 18:12 | 107-13-1  |      |
| tert-Amylmethyl ether  | <260    | ug/kg | 260    | 260  | 1  |                | 04/03/20 18:12 | 994-05-8  | N2   |
| Benzene  | <52.1   | ug/kg | 52.1   | 52.1 | 1  |                | 04/03/20 18:12 | 71-43-2   |      |
| Bromobenzene   | <104    | ug/kg | 104    | 104  | 1  |                | 04/03/20 18:12 | 108-86-1  |      |
| Bromochloromethane   | <26.0   | ug/kg | 52.1   | 26.0 | 1  |                | 04/03/20 18:12 | 74-97-5   |      |
| Bromodichloromethane   | <104    | ug/kg | 104    | 104  | 1  |                | 04/03/20 18:12 | 75-27-4   |      |
| Bromoform  | <104    | ug/kg | 104    | 104  | 1  |                | 04/03/20 18:12 | 75-25-2   |      |
| Bromomethane   | <208    | ug/kg | 208    | 208  | 1  |                | 04/03/20 18:12 | 74-83-9   | L1   |
| 2-Butanone (MEK)   | <781    | ug/kg | 781    | 781  | 1  |                | 04/03/20 18:12 | 78-93-3   |      |
| tert-Butyl Alcohol   | <2600   | ug/kg | 2600   | 2600 | 1  |                | 04/03/20 18:12 | 75-65-0   |      |
| n-Butylbenzene   | <52.1   | ug/kg | 52.1   | 52.1 | 1  |                | 04/03/20 18:12 | 104-51-8  |      |
| sec-Butylbenzene   | <52.1   | ug/kg | 52.1   | 52.1 | 1  |                | 04/03/20 18:12 | 135-98-8  |      |
| tert-Butylbenzene  | <52.1   | ug/kg | 52.1   | 52.1 | 1  |                | 04/03/20 18:12 | 98-06-6   |      |
| Carbon disulfide   | <260    | ug/kg | 260    | 260  | 1  |                | 04/03/20 18:12 | 75-15-0   |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

Sample: MW-106 (5-6') Lab ID: 50253160015 Collected: 03/25/20 08:22 Received: 03/27/20 08:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Carbon tetrachloride           | <52.1   | ug/kg  | 52.1 | 52.1 | 1  |          | 04/03/20 18:12 | 56-23-5    |      |
| Chlorobenzene                  | <52.1   | ug/kg  | 52.1 | 52.1 | 1  |          | 04/03/20 18:12 | 108-90-7   |      |
| Chloroethane                   | <260    | ug/kg  | 260  | 260  | 1  |          | 04/03/20 18:12 | 75-00-3    |      |
| Chloroform                     | <52.1   | ug/kg  | 52.1 | 52.1 | 1  |          | 04/03/20 18:12 | 67-66-3    |      |
| Chloromethane                  | <260    | ug/kg  | 260  | 260  | 1  |          | 04/03/20 18:12 | 74-87-3    |      |
| Cyclohexane                    | <52.1   | ug/kg  | 52.1 | 52.1 | 1  |          | 04/03/20 18:12 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <52.1   | ug/kg  | 52.1 | 52.1 | 1  |          | 04/03/20 18:12 | 96-12-8    |      |
| Dibromochloromethane           | <104    | ug/kg  | 104  | 104  | 1  |          | 04/03/20 18:12 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <52.1   | ug/kg  | 52.1 | 52.1 | 1  |          | 04/03/20 18:12 | 106-93-4   |      |
| Dibromomethane                 | <260    | ug/kg  | 260  | 260  | 1  |          | 04/03/20 18:12 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <104    | ug/kg  | 104  | 104  | 1  |          | 04/03/20 18:12 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <104    | ug/kg  | 104  | 104  | 1  |          | 04/03/20 18:12 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <104    | ug/kg  | 104  | 104  | 1  |          | 04/03/20 18:12 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <104    | ug/kg  | 1040 | 104  | 1  |          | 04/03/20 18:12 | 110-57-6   |      |
| Dichlorodifluoromethane        | <260    | ug/kg  | 260  | 260  | 1  |          | 04/03/20 18:12 | 75-71-8    |      |
| 1,1-Dichloroethane             | <52.1   | ug/kg  | 52.1 | 52.1 | 1  |          | 04/03/20 18:12 | 75-34-3    |      |
| 1,2-Dichloroethane             | <52.1   | ug/kg  | 52.1 | 52.1 | 1  |          | 04/03/20 18:12 | 107-06-2   |      |
| 1,1-Dichloroethene             | <52.1   | ug/kg  | 52.1 | 52.1 | 1  |          | 04/03/20 18:12 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <52.1   | ug/kg  | 52.1 | 52.1 | 1  |          | 04/03/20 18:12 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <52.1   | ug/kg  | 52.1 | 52.1 | 1  |          | 04/03/20 18:12 | 156-60-5   |      |
| 1,2-Dichloropropane            | <52.1   | ug/kg  | 52.1 | 52.1 | 1  |          | 04/03/20 18:12 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <104    | ug/kg  | 104  | 104  | 1  |          | 04/03/20 18:12 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <104    | ug/kg  | 104  | 104  | 1  |          | 04/03/20 18:12 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <208    | ug/kg  | 208  | 208  | 1  |          | 04/03/20 18:12 | 60-29-7    |      |
| Diisopropyl ether              | <260    | ug/kg  | 260  | 260  | 1  |          | 04/03/20 18:12 | 108-20-3   | N2   |
| Ethylbenzene                   | <52.1   | ug/kg  | 52.1 | 52.1 | 1  |          | 04/03/20 18:12 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <260    | ug/kg  | 260  | 260  | 1  |          | 04/03/20 18:12 | 637-92-3   | N2   |
| Hexachloroethane               | <312    | ug/kg  | 312  | 312  | 1  |          | 04/03/20 18:12 | 67-72-1    | N2   |
| 2-Hexanone                     | <2600   | ug/kg  | 2600 | 2600 | 1  |          | 04/03/20 18:12 | 591-78-6   |      |
| Iodomethane                    | <104    | ug/kg  | 1040 | 104  | 1  |          | 04/03/20 18:12 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <260    | ug/kg  | 260  | 260  | 1  |          | 04/03/20 18:12 | 98-82-8    |      |
| p-Isopropyltoluene             | <26.0   | ug/kg  | 52.1 | 26.0 | 1  |          | 04/03/20 18:12 | 99-87-6    |      |
| Methylene Chloride             | <104    | ug/kg  | 104  | 104  | 1  |          | 04/03/20 18:12 | 75-09-2    |      |
| 2-Methylnaphthalene            | <344    | ug/kg  | 344  | 344  | 1  |          | 04/03/20 18:12 | 91-57-6    | N2   |
| 4-Methyl-2-pentanone (MIBK)    | <2600   | ug/kg  | 2600 | 2600 | 1  |          | 04/03/20 18:12 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <260    | ug/kg  | 260  | 260  | 1  |          | 04/03/20 18:12 | 1634-04-4  |      |
| Naphthalene                    | <344    | ug/kg  | 344  | 344  | 1  |          | 04/03/20 18:12 | 91-20-3    |      |
| n-Propylbenzene                | <104    | ug/kg  | 104  | 104  | 1  |          | 04/03/20 18:12 | 103-65-1   |      |
| Styrene                        | <52.1   | ug/kg  | 52.1 | 52.1 | 1  |          | 04/03/20 18:12 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <104    | ug/kg  | 104  | 104  | 1  |          | 04/03/20 18:12 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane      | <52.1   | ug/kg  | 52.1 | 52.1 | 1  |          | 04/03/20 18:12 | 79-34-5    |      |
| Tetrachloroethene              | <52.1   | ug/kg  | 52.1 | 52.1 | 1  |          | 04/03/20 18:12 | 127-18-4   |      |
| Tetrahydrofuran                | <1040   | ug/kg  | 1040 | 1040 | 1  |          | 04/03/20 18:12 | 109-99-9   | N2   |
| Toluene                        | <104    | ug/kg  | 104  | 104  | 1  |          | 04/03/20 18:12 | 108-88-3   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-106 (5-6') Lab ID: 50253160015** Collected: 03/25/20 08:22 Received: 03/27/20 08:10 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| 1,2,3-Trichlorobenzene                  | <260    | ug/kg | 260    | 260  | 1  |          | 04/03/20 18:12 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <260    | ug/kg | 260    | 260  | 1  |          | 04/03/20 18:12 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <52.1   | ug/kg | 52.1   | 52.1 | 1  |          | 04/03/20 18:12 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <52.1   | ug/kg | 52.1   | 52.1 | 1  |          | 04/03/20 18:12 | 79-00-5     |      |
| Trichloroethene                         | <52.1   | ug/kg | 52.1   | 52.1 | 1  |          | 04/03/20 18:12 | 79-01-6     |      |
| Trichlorofluoromethane                  | <104    | ug/kg | 104    | 104  | 1  |          | 04/03/20 18:12 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <104    | ug/kg | 104    | 104  | 1  |          | 04/03/20 18:12 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <260    | ug/kg | 260    | 260  | 1  |          | 04/03/20 18:12 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <104    | ug/kg | 104    | 104  | 1  |          | 04/03/20 18:12 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <104    | ug/kg | 104    | 104  | 1  |          | 04/03/20 18:12 | 108-67-8    |      |
| Vinyl chloride                          | <41.6   | ug/kg | 41.6   | 41.6 | 1  |          | 04/03/20 18:12 | 75-01-4     |      |
| m&p-Xylene                              | <26.0   | ug/kg | 52.1   | 26.0 | 1  |          | 04/03/20 18:12 | 179601-23-1 |      |
| o-Xylene                                | <26.0   | ug/kg | 52.1   | 26.0 | 1  |          | 04/03/20 18:12 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 103     | %     | 62-137 |      | 1  |          | 04/03/20 18:12 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 105     | %     | 64-139 |      | 1  |          | 04/03/20 18:12 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 95      | %     | 60-142 |      | 1  |          | 04/03/20 18:12 | 460-00-4    |      |
| <b>Percent Moisture</b>                 |         |       |        |      |    |          |                |             |      |
| Analytical Method: SM 2540G             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Percent Moisture                        | 8.5     | %     | 0.10   | 0.10 | 1  |          | 04/01/20 09:02 |             |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-107 (6-7)**      **Lab ID: 50253160016**      Collected: 03/25/20 08:55      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                      |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                           |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |      |    |                |                |           |      |
| n-Butanol  | <5060   | ug/kg | 5060   | 5060 | 1  |                | 03/30/20 22:49 | 71-36-3   |      |
| Ethanol  | <2870   | ug/kg | 2870   | 2870 | 1  |                | 03/30/20 22:49 | 64-17-5   | B0   |
| Methanol   | 14800   | ug/kg | 5060   | 5060 | 1  |                | 03/30/20 22:49 | 67-56-1   | B0   |
| <b>8270 PAH Soil</b>   |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |      |    |                |                |           |      |
| Acenaphthene   | <374    | ug/kg | 374    | 374  | 1  | 04/03/20 09:30 | 04/03/20 20:19 | 83-32-9   |      |
| Acenaphthylene   | <374    | ug/kg | 374    | 374  | 1  | 04/03/20 09:30 | 04/03/20 20:19 | 208-96-8  |      |
| Anthracene   | <374    | ug/kg | 374    | 374  | 1  | 04/03/20 09:30 | 04/03/20 20:19 | 120-12-7  |      |
| Benzo(a)anthracene   | <374    | ug/kg | 374    | 374  | 1  | 04/03/20 09:30 | 04/03/20 20:19 | 56-55-3   |      |
| Benzo(a)pyrene   | <374    | ug/kg | 374    | 374  | 1  | 04/03/20 09:30 | 04/03/20 20:19 | 50-32-8   |      |
| Benzo(b)fluoranthene   | <374    | ug/kg | 374    | 374  | 1  | 04/03/20 09:30 | 04/03/20 20:19 | 205-99-2  |      |
| Benzo(g,h,i)perylene   | <374    | ug/kg | 374    | 374  | 1  | 04/03/20 09:30 | 04/03/20 20:19 | 191-24-2  |      |
| Benzo(k)fluoranthene   | <374    | ug/kg | 374    | 374  | 1  | 04/03/20 09:30 | 04/03/20 20:19 | 207-08-9  |      |
| Chrysene   | <374    | ug/kg | 374    | 374  | 1  | 04/03/20 09:30 | 04/03/20 20:19 | 218-01-9  |      |
| Dibenz(a,h)anthracene  | <374    | ug/kg | 374    | 374  | 1  | 04/03/20 09:30 | 04/03/20 20:19 | 53-70-3   |      |
| Fluoranthene   | <374    | ug/kg | 374    | 374  | 1  | 04/03/20 09:30 | 04/03/20 20:19 | 206-44-0  |      |
| Fluorene   | <374    | ug/kg | 374    | 374  | 1  | 04/03/20 09:30 | 04/03/20 20:19 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | <374    | ug/kg | 374    | 374  | 1  | 04/03/20 09:30 | 04/03/20 20:19 | 193-39-5  |      |
| 2-Methylnaphthalene  | <374    | ug/kg | 374    | 374  | 1  | 04/03/20 09:30 | 04/03/20 20:19 | 91-57-6   |      |
| Naphthalene  | <374    | ug/kg | 374    | 374  | 1  | 04/03/20 09:30 | 04/03/20 20:19 | 91-20-3   |      |
| Phenanthrene   | <374    | ug/kg | 374    | 374  | 1  | 04/03/20 09:30 | 04/03/20 20:19 | 85-01-8   |      |
| Pyrene   | <374    | ug/kg | 374    | 374  | 1  | 04/03/20 09:30 | 04/03/20 20:19 | 129-00-0  |      |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |           |      |
| 2-Fluorobiphenyl (S)   | 67      | %     | 37-111 |      | 1  | 04/03/20 09:30 | 04/03/20 20:19 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 69      | %     | 29-124 |      | 1  | 04/03/20 09:30 | 04/03/20 20:19 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                                       |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260  |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |      |    |                |                |           |      |
| Acetone  | <1290   | ug/kg | 1290   | 1290 | 1  |                | 04/03/20 18:44 | 67-64-1   |      |
| Acrylonitrile  | <129    | ug/kg | 129    | 129  | 1  |                | 04/03/20 18:44 | 107-13-1  |      |
| tert-Amylmethyl ether  | <322    | ug/kg | 322    | 322  | 1  |                | 04/03/20 18:44 | 994-05-8  | N2   |
| Benzene  | <64.5   | ug/kg | 64.5   | 64.5 | 1  |                | 04/03/20 18:44 | 71-43-2   |      |
| Bromobenzene   | <129    | ug/kg | 129    | 129  | 1  |                | 04/03/20 18:44 | 108-86-1  |      |
| Bromochloromethane   | <32.2   | ug/kg | 64.5   | 32.2 | 1  |                | 04/03/20 18:44 | 74-97-5   |      |
| Bromodichloromethane   | <129    | ug/kg | 129    | 129  | 1  |                | 04/03/20 18:44 | 75-27-4   |      |
| Bromoform  | <129    | ug/kg | 129    | 129  | 1  |                | 04/03/20 18:44 | 75-25-2   |      |
| Bromomethane   | <258    | ug/kg | 258    | 258  | 1  |                | 04/03/20 18:44 | 74-83-9   | L1   |
| 2-Butanone (MEK)   | <967    | ug/kg | 967    | 967  | 1  |                | 04/03/20 18:44 | 78-93-3   |      |
| tert-Butyl Alcohol   | <3220   | ug/kg | 3220   | 3220 | 1  |                | 04/03/20 18:44 | 75-65-0   |      |
| n-Butylbenzene   | <64.5   | ug/kg | 64.5   | 64.5 | 1  |                | 04/03/20 18:44 | 104-51-8  |      |
| sec-Butylbenzene   | <64.5   | ug/kg | 64.5   | 64.5 | 1  |                | 04/03/20 18:44 | 135-98-8  |      |
| tert-Butylbenzene  | <64.5   | ug/kg | 64.5   | 64.5 | 1  |                | 04/03/20 18:44 | 98-06-6   |      |
| Carbon disulfide   | <322    | ug/kg | 322    | 322  | 1  |                | 04/03/20 18:44 | 75-15-0   |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

Sample: MW-107 (6-7) Lab ID: 50253160016 Collected: 03/25/20 08:55 Received: 03/27/20 08:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Carbon tetrachloride           | <64.5   | ug/kg  | 64.5 | 64.5 | 1  |          | 04/03/20 18:44 | 56-23-5    |      |
| Chlorobenzene                  | <64.5   | ug/kg  | 64.5 | 64.5 | 1  |          | 04/03/20 18:44 | 108-90-7   |      |
| Chloroethane                   | <322    | ug/kg  | 322  | 322  | 1  |          | 04/03/20 18:44 | 75-00-3    |      |
| Chloroform                     | <64.5   | ug/kg  | 64.5 | 64.5 | 1  |          | 04/03/20 18:44 | 67-66-3    |      |
| Chloromethane                  | <322    | ug/kg  | 322  | 322  | 1  |          | 04/03/20 18:44 | 74-87-3    |      |
| Cyclohexane                    | <645    | ug/kg  | 645  | 645  | 1  |          | 04/03/20 18:44 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <64.5   | ug/kg  | 64.5 | 64.5 | 1  |          | 04/03/20 18:44 | 96-12-8    |      |
| Dibromochloromethane           | <129    | ug/kg  | 129  | 129  | 1  |          | 04/03/20 18:44 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <64.5   | ug/kg  | 64.5 | 64.5 | 1  |          | 04/03/20 18:44 | 106-93-4   |      |
| Dibromomethane                 | <322    | ug/kg  | 322  | 322  | 1  |          | 04/03/20 18:44 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <129    | ug/kg  | 129  | 129  | 1  |          | 04/03/20 18:44 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <129    | ug/kg  | 129  | 129  | 1  |          | 04/03/20 18:44 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <129    | ug/kg  | 129  | 129  | 1  |          | 04/03/20 18:44 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <129    | ug/kg  | 1290 | 129  | 1  |          | 04/03/20 18:44 | 110-57-6   |      |
| Dichlorodifluoromethane        | <322    | ug/kg  | 322  | 322  | 1  |          | 04/03/20 18:44 | 75-71-8    |      |
| 1,1-Dichloroethane             | <64.5   | ug/kg  | 64.5 | 64.5 | 1  |          | 04/03/20 18:44 | 75-34-3    |      |
| 1,2-Dichloroethane             | <64.5   | ug/kg  | 64.5 | 64.5 | 1  |          | 04/03/20 18:44 | 107-06-2   |      |
| 1,1-Dichloroethene             | <64.5   | ug/kg  | 64.5 | 64.5 | 1  |          | 04/03/20 18:44 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <64.5   | ug/kg  | 64.5 | 64.5 | 1  |          | 04/03/20 18:44 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <64.5   | ug/kg  | 64.5 | 64.5 | 1  |          | 04/03/20 18:44 | 156-60-5   |      |
| 1,2-Dichloropropane            | <64.5   | ug/kg  | 64.5 | 64.5 | 1  |          | 04/03/20 18:44 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <129    | ug/kg  | 129  | 129  | 1  |          | 04/03/20 18:44 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <129    | ug/kg  | 129  | 129  | 1  |          | 04/03/20 18:44 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <258    | ug/kg  | 258  | 258  | 1  |          | 04/03/20 18:44 | 60-29-7    |      |
| Diisopropyl ether              | <322    | ug/kg  | 322  | 322  | 1  |          | 04/03/20 18:44 | 108-20-3   | N2   |
| Ethylbenzene                   | <64.5   | ug/kg  | 64.5 | 64.5 | 1  |          | 04/03/20 18:44 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <322    | ug/kg  | 322  | 322  | 1  |          | 04/03/20 18:44 | 637-92-3   | N2   |
| Hexachloroethane               | <387    | ug/kg  | 387  | 387  | 1  |          | 04/03/20 18:44 | 67-72-1    | N2   |
| 2-Hexanone                     | <3220   | ug/kg  | 3220 | 3220 | 1  |          | 04/03/20 18:44 | 591-78-6   |      |
| Iodomethane                    | <129    | ug/kg  | 1290 | 129  | 1  |          | 04/03/20 18:44 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <322    | ug/kg  | 322  | 322  | 1  |          | 04/03/20 18:44 | 98-82-8    |      |
| p-Isopropyltoluene             | <32.2   | ug/kg  | 64.5 | 32.2 | 1  |          | 04/03/20 18:44 | 99-87-6    |      |
| Methylene Chloride             | <129    | ug/kg  | 129  | 129  | 1  |          | 04/03/20 18:44 | 75-09-2    |      |
| 2-Methylnaphthalene            | <426    | ug/kg  | 426  | 426  | 1  |          | 04/03/20 18:44 | 91-57-6    | N2   |
| 4-Methyl-2-pentanone (MIBK)    | <3220   | ug/kg  | 3220 | 3220 | 1  |          | 04/03/20 18:44 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <322    | ug/kg  | 322  | 322  | 1  |          | 04/03/20 18:44 | 1634-04-4  |      |
| Naphthalene                    | <426    | ug/kg  | 426  | 426  | 1  |          | 04/03/20 18:44 | 91-20-3    |      |
| n-Propylbenzene                | <129    | ug/kg  | 129  | 129  | 1  |          | 04/03/20 18:44 | 103-65-1   |      |
| Styrene                        | <64.5   | ug/kg  | 64.5 | 64.5 | 1  |          | 04/03/20 18:44 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <129    | ug/kg  | 129  | 129  | 1  |          | 04/03/20 18:44 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane      | <64.5   | ug/kg  | 64.5 | 64.5 | 1  |          | 04/03/20 18:44 | 79-34-5    |      |
| Tetrachloroethene              | <64.5   | ug/kg  | 64.5 | 64.5 | 1  |          | 04/03/20 18:44 | 127-18-4   |      |
| Tetrahydrofuran                | <1290   | ug/kg  | 1290 | 1290 | 1  |          | 04/03/20 18:44 | 109-99-9   | N2   |
| Toluene                        | <129    | ug/kg  | 129  | 129  | 1  |          | 04/03/20 18:44 | 108-88-3   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale

Pace Project No.: 50253160

**Sample: MW-107 (6-7)**      **Lab ID: 50253160016**      Collected: 03/25/20 08:55      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| 1,2,3-Trichlorobenzene                  | <322    | ug/kg | 322    | 322  | 1  |          | 04/03/20 18:44 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <322    | ug/kg | 322    | 322  | 1  |          | 04/03/20 18:44 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <64.5   | ug/kg | 64.5   | 64.5 | 1  |          | 04/03/20 18:44 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <64.5   | ug/kg | 64.5   | 64.5 | 1  |          | 04/03/20 18:44 | 79-00-5     |      |
| Trichloroethene                         | <64.5   | ug/kg | 64.5   | 64.5 | 1  |          | 04/03/20 18:44 | 79-01-6     |      |
| Trichlorofluoromethane                  | <129    | ug/kg | 129    | 129  | 1  |          | 04/03/20 18:44 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <129    | ug/kg | 129    | 129  | 1  |          | 04/03/20 18:44 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <322    | ug/kg | 322    | 322  | 1  |          | 04/03/20 18:44 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <129    | ug/kg | 129    | 129  | 1  |          | 04/03/20 18:44 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <129    | ug/kg | 129    | 129  | 1  |          | 04/03/20 18:44 | 108-67-8    |      |
| Vinyl chloride                          | <51.6   | ug/kg | 51.6   | 51.6 | 1  |          | 04/03/20 18:44 | 75-01-4     |      |
| m&p-Xylene                              | <32.2   | ug/kg | 64.5   | 32.2 | 1  |          | 04/03/20 18:44 | 179601-23-1 |      |
| o-Xylene                                | <32.2   | ug/kg | 64.5   | 32.2 | 1  |          | 04/03/20 18:44 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 119     | %     | 62-137 |      | 1  |          | 04/03/20 18:44 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 118     | %     | 64-139 |      | 1  |          | 04/03/20 18:44 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 105     | %     | 60-142 |      | 1  |          | 04/03/20 18:44 | 460-00-4    |      |
| <b>Percent Moisture</b>                 |         |       |        |      |    |          |                |             |      |
| Analytical Method: SM 2540G             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Percent Moisture                        | 13.0    | %     | 0.10   | 0.10 | 1  |          | 04/01/20 09:02 |             |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale

Pace Project No.: 50253160

Sample: MW-108 (4-5) Lab ID: 50253160017 Collected: 03/25/20 09:15 Received: 03/27/20 08:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                 |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                      |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                         |         |       |        |      |    |                |                |           |      |
| n-Butanol   | <4670   | ug/kg | 4670   | 4670 | 1  |                | 03/30/20 22:58 | 71-36-3   |      |
| Ethanol   | <2660   | ug/kg | 2660   | 2660 | 1  |                | 03/30/20 22:58 | 64-17-5   | B0   |
| Methanol  | 13000   | ug/kg | 4670   | 4670 | 1  |                | 03/30/20 22:58 | 67-56-1   | B0   |
| <b>8270 PAH Soil</b>  |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                         |         |       |        |      |    |                |                |           |      |
| Acenaphthene  | <349    | ug/kg | 349    | 349  | 1  | 04/03/20 09:30 | 04/03/20 20:36 | 83-32-9   |      |
| Acenaphthylene  | <349    | ug/kg | 349    | 349  | 1  | 04/03/20 09:30 | 04/03/20 20:36 | 208-96-8  |      |
| Anthracene  | <349    | ug/kg | 349    | 349  | 1  | 04/03/20 09:30 | 04/03/20 20:36 | 120-12-7  |      |
| Benzo(a)anthracene  | <349    | ug/kg | 349    | 349  | 1  | 04/03/20 09:30 | 04/03/20 20:36 | 56-55-3   |      |
| Benzo(a)pyrene  | <349    | ug/kg | 349    | 349  | 1  | 04/03/20 09:30 | 04/03/20 20:36 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <349    | ug/kg | 349    | 349  | 1  | 04/03/20 09:30 | 04/03/20 20:36 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <349    | ug/kg | 349    | 349  | 1  | 04/03/20 09:30 | 04/03/20 20:36 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <349    | ug/kg | 349    | 349  | 1  | 04/03/20 09:30 | 04/03/20 20:36 | 207-08-9  |      |
| Chrysene  | <349    | ug/kg | 349    | 349  | 1  | 04/03/20 09:30 | 04/03/20 20:36 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | <349    | ug/kg | 349    | 349  | 1  | 04/03/20 09:30 | 04/03/20 20:36 | 53-70-3   |      |
| Fluoranthene  | <349    | ug/kg | 349    | 349  | 1  | 04/03/20 09:30 | 04/03/20 20:36 | 206-44-0  |      |
| Fluorene  | <349    | ug/kg | 349    | 349  | 1  | 04/03/20 09:30 | 04/03/20 20:36 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene  | <349    | ug/kg | 349    | 349  | 1  | 04/03/20 09:30 | 04/03/20 20:36 | 193-39-5  |      |
| 2-Methylnaphthalene   | <349    | ug/kg | 349    | 349  | 1  | 04/03/20 09:30 | 04/03/20 20:36 | 91-57-6   |      |
| Naphthalene   | <349    | ug/kg | 349    | 349  | 1  | 04/03/20 09:30 | 04/03/20 20:36 | 91-20-3   |      |
| Phenanthrene  | <349    | ug/kg | 349    | 349  | 1  | 04/03/20 09:30 | 04/03/20 20:36 | 85-01-8   |      |
| Pyrene  | <349    | ug/kg | 349    | 349  | 1  | 04/03/20 09:30 | 04/03/20 20:36 | 129-00-0  |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| 2-Fluorobiphenyl (S)  | 72      | %     | 37-111 |      | 1  | 04/03/20 09:30 | 04/03/20 20:36 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 84      | %     | 29-124 |      | 1  | 04/03/20 09:30 | 04/03/20 20:36 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                                  |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                                     |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                         |         |       |        |      |    |                |                |           |      |
| Acetone   | <1600   | ug/kg | 1600   | 1600 | 1  | 04/03/20 19:17 | 04/03/20 19:17 | 67-64-1   |      |
| Acrylonitrile   | <160    | ug/kg | 160    | 160  | 1  | 04/03/20 19:17 | 04/03/20 19:17 | 107-13-1  |      |
| tert-Amylmethyl ether   | <399    | ug/kg | 399    | 399  | 1  | 04/03/20 19:17 | 04/03/20 19:17 | 994-05-8  | N2   |
| Benzene   | <79.8   | ug/kg | 79.8   | 79.8 | 1  | 04/03/20 19:17 | 04/03/20 19:17 | 71-43-2   |      |
| Bromobenzene  | <160    | ug/kg | 160    | 160  | 1  | 04/03/20 19:17 | 04/03/20 19:17 | 108-86-1  |      |
| Bromochloromethane  | <39.9   | ug/kg | 79.8   | 39.9 | 1  | 04/03/20 19:17 | 04/03/20 19:17 | 74-97-5   |      |
| Bromodichloromethane  | <160    | ug/kg | 160    | 160  | 1  | 04/03/20 19:17 | 04/03/20 19:17 | 75-27-4   |      |
| Bromoform   | <160    | ug/kg | 160    | 160  | 1  | 04/03/20 19:17 | 04/03/20 19:17 | 75-25-2   |      |
| Bromomethane  | <319    | ug/kg | 319    | 319  | 1  | 04/03/20 19:17 | 04/03/20 19:17 | 74-83-9   | L1   |
| 2-Butanone (MEK)  | <1200   | ug/kg | 1200   | 1200 | 1  | 04/03/20 19:17 | 04/03/20 19:17 | 78-93-3   |      |
| tert-Butyl Alcohol  | <3990   | ug/kg | 3990   | 3990 | 1  | 04/03/20 19:17 | 04/03/20 19:17 | 75-65-0   |      |
| n-Butylbenzene  | <79.8   | ug/kg | 79.8   | 79.8 | 1  | 04/03/20 19:17 | 04/03/20 19:17 | 104-51-8  |      |
| sec-Butylbenzene  | <79.8   | ug/kg | 79.8   | 79.8 | 1  | 04/03/20 19:17 | 04/03/20 19:17 | 135-98-8  |      |
| tert-Butylbenzene   | <79.8   | ug/kg | 79.8   | 79.8 | 1  | 04/03/20 19:17 | 04/03/20 19:17 | 98-06-6   |      |
| Carbon disulfide  | <399    | ug/kg | 399    | 399  | 1  | 04/03/20 19:17 | 04/03/20 19:17 | 75-15-0   |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale

Pace Project No.: 50253160

Sample: MW-108 (4-5) Lab ID: 50253160017 Collected: 03/25/20 09:15 Received: 03/27/20 08:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Carbon tetrachloride           | <79.8   | ug/kg  | 79.8 | 79.8 | 1  |          | 04/03/20 19:17 | 56-23-5    |      |
| Chlorobenzene                  | <79.8   | ug/kg  | 79.8 | 79.8 | 1  |          | 04/03/20 19:17 | 108-90-7   |      |
| Chloroethane                   | <399    | ug/kg  | 399  | 399  | 1  |          | 04/03/20 19:17 | 75-00-3    |      |
| Chloroform                     | <79.8   | ug/kg  | 79.8 | 79.8 | 1  |          | 04/03/20 19:17 | 67-66-3    |      |
| Chloromethane                  | <399    | ug/kg  | 399  | 399  | 1  |          | 04/03/20 19:17 | 74-87-3    |      |
| Cyclohexane                    | <798    | ug/kg  | 798  | 798  | 1  |          | 04/03/20 19:17 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <79.8   | ug/kg  | 79.8 | 79.8 | 1  |          | 04/03/20 19:17 | 96-12-8    |      |
| Dibromochloromethane           | <160    | ug/kg  | 160  | 160  | 1  |          | 04/03/20 19:17 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <79.8   | ug/kg  | 79.8 | 79.8 | 1  |          | 04/03/20 19:17 | 106-93-4   |      |
| Dibromomethane                 | <399    | ug/kg  | 399  | 399  | 1  |          | 04/03/20 19:17 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <160    | ug/kg  | 160  | 160  | 1  |          | 04/03/20 19:17 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <160    | ug/kg  | 160  | 160  | 1  |          | 04/03/20 19:17 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <160    | ug/kg  | 160  | 160  | 1  |          | 04/03/20 19:17 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <160    | ug/kg  | 1600 | 160  | 1  |          | 04/03/20 19:17 | 110-57-6   |      |
| Dichlorodifluoromethane        | <399    | ug/kg  | 399  | 399  | 1  |          | 04/03/20 19:17 | 75-71-8    |      |
| 1,1-Dichloroethane             | <79.8   | ug/kg  | 79.8 | 79.8 | 1  |          | 04/03/20 19:17 | 75-34-3    |      |
| 1,2-Dichloroethane             | <79.8   | ug/kg  | 79.8 | 79.8 | 1  |          | 04/03/20 19:17 | 107-06-2   |      |
| 1,1-Dichloroethene             | <79.8   | ug/kg  | 79.8 | 79.8 | 1  |          | 04/03/20 19:17 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <79.8   | ug/kg  | 79.8 | 79.8 | 1  |          | 04/03/20 19:17 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <79.8   | ug/kg  | 79.8 | 79.8 | 1  |          | 04/03/20 19:17 | 156-60-5   |      |
| 1,2-Dichloropropane            | <79.8   | ug/kg  | 79.8 | 79.8 | 1  |          | 04/03/20 19:17 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <160    | ug/kg  | 160  | 160  | 1  |          | 04/03/20 19:17 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <160    | ug/kg  | 160  | 160  | 1  |          | 04/03/20 19:17 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <319    | ug/kg  | 319  | 319  | 1  |          | 04/03/20 19:17 | 60-29-7    |      |
| Diisopropyl ether              | <399    | ug/kg  | 399  | 399  | 1  |          | 04/03/20 19:17 | 108-20-3   | N2   |
| Ethylbenzene                   | <79.8   | ug/kg  | 79.8 | 79.8 | 1  |          | 04/03/20 19:17 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <399    | ug/kg  | 399  | 399  | 1  |          | 04/03/20 19:17 | 637-92-3   | N2   |
| Hexachloroethane               | <479    | ug/kg  | 479  | 479  | 1  |          | 04/03/20 19:17 | 67-72-1    | N2   |
| 2-Hexanone                     | <3990   | ug/kg  | 3990 | 3990 | 1  |          | 04/03/20 19:17 | 591-78-6   |      |
| Iodomethane                    | <160    | ug/kg  | 1600 | 160  | 1  |          | 04/03/20 19:17 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <399    | ug/kg  | 399  | 399  | 1  |          | 04/03/20 19:17 | 98-82-8    |      |
| p-Isopropyltoluene             | <39.9   | ug/kg  | 79.8 | 39.9 | 1  |          | 04/03/20 19:17 | 99-87-6    |      |
| Methylene Chloride             | <160    | ug/kg  | 160  | 160  | 1  |          | 04/03/20 19:17 | 75-09-2    |      |
| 2-Methylnaphthalene            | <527    | ug/kg  | 527  | 527  | 1  |          | 04/03/20 19:17 | 91-57-6    | N2   |
| 4-Methyl-2-pentanone (MIBK)    | <3990   | ug/kg  | 3990 | 3990 | 1  |          | 04/03/20 19:17 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <399    | ug/kg  | 399  | 399  | 1  |          | 04/03/20 19:17 | 1634-04-4  |      |
| Naphthalene                    | <527    | ug/kg  | 527  | 527  | 1  |          | 04/03/20 19:17 | 91-20-3    |      |
| n-Propylbenzene                | <160    | ug/kg  | 160  | 160  | 1  |          | 04/03/20 19:17 | 103-65-1   |      |
| Styrene                        | <79.8   | ug/kg  | 79.8 | 79.8 | 1  |          | 04/03/20 19:17 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <160    | ug/kg  | 160  | 160  | 1  |          | 04/03/20 19:17 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane      | <79.8   | ug/kg  | 79.8 | 79.8 | 1  |          | 04/03/20 19:17 | 79-34-5    |      |
| Tetrachloroethene              | <79.8   | ug/kg  | 79.8 | 79.8 | 1  |          | 04/03/20 19:17 | 127-18-4   |      |
| Tetrahydrofuran                | <1600   | ug/kg  | 1600 | 1600 | 1  |          | 04/03/20 19:17 | 109-99-9   | N2   |
| Toluene                        | <160    | ug/kg  | 160  | 160  | 1  |          | 04/03/20 19:17 | 108-88-3   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-108 (4-5)**      **Lab ID: 50253160017**      Collected: 03/25/20 09:15      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| 1,2,3-Trichlorobenzene                  | <399    | ug/kg | 399    | 399  | 1  |          | 04/03/20 19:17 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <399    | ug/kg | 399    | 399  | 1  |          | 04/03/20 19:17 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <79.8   | ug/kg | 79.8   | 79.8 | 1  |          | 04/03/20 19:17 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <79.8   | ug/kg | 79.8   | 79.8 | 1  |          | 04/03/20 19:17 | 79-00-5     |      |
| Trichloroethene                         | <79.8   | ug/kg | 79.8   | 79.8 | 1  |          | 04/03/20 19:17 | 79-01-6     |      |
| Trichlorofluoromethane                  | <160    | ug/kg | 160    | 160  | 1  |          | 04/03/20 19:17 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <160    | ug/kg | 160    | 160  | 1  |          | 04/03/20 19:17 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <399    | ug/kg | 399    | 399  | 1  |          | 04/03/20 19:17 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <160    | ug/kg | 160    | 160  | 1  |          | 04/03/20 19:17 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <160    | ug/kg | 160    | 160  | 1  |          | 04/03/20 19:17 | 108-67-8    |      |
| Vinyl chloride                          | <63.8   | ug/kg | 63.8   | 63.8 | 1  |          | 04/03/20 19:17 | 75-01-4     |      |
| m&p-Xylene                              | <39.9   | ug/kg | 79.8   | 39.9 | 1  |          | 04/03/20 19:17 | 179601-23-1 |      |
| o-Xylene                                | <39.9   | ug/kg | 79.8   | 39.9 | 1  |          | 04/03/20 19:17 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 101     | %     | 62-137 |      | 1  |          | 04/03/20 19:17 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 104     | %     | 64-139 |      | 1  |          | 04/03/20 19:17 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 96      | %     | 60-142 |      | 1  |          | 04/03/20 19:17 | 460-00-4    |      |
| <b>Percent Moisture</b>                 |         |       |        |      |    |          |                |             |      |
| Analytical Method: SM 2540G             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Percent Moisture                        | 5.8     | %     | 0.10   | 0.10 | 1  |          | 04/01/20 09:03 |             |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-109 (4-5)**      **Lab ID: 50253160018**      Collected: 03/25/20 09:40      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                      |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                           |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |      |    |                |                |           |      |
| n-Butanol  | <4640   | ug/kg | 4640   | 4640 | 1  |                | 03/30/20 23:07 | 71-36-3   |      |
| Ethanol  | <2640   | ug/kg | 2640   | 2640 | 1  |                | 03/30/20 23:07 | 64-17-5   | B0   |
| Methanol   | 13300   | ug/kg | 4640   | 4640 | 1  |                | 03/30/20 23:07 | 67-56-1   | B0   |
| <b>8270 PAH Soil</b>   |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |      |    |                |                |           |      |
| Acenaphthene   | <348    | ug/kg | 348    | 348  | 1  | 04/03/20 09:30 | 04/03/20 20:53 | 83-32-9   |      |
| Acenaphthylene   | <348    | ug/kg | 348    | 348  | 1  | 04/03/20 09:30 | 04/03/20 20:53 | 208-96-8  |      |
| Anthracene   | <348    | ug/kg | 348    | 348  | 1  | 04/03/20 09:30 | 04/03/20 20:53 | 120-12-7  |      |
| Benzo(a)anthracene   | <348    | ug/kg | 348    | 348  | 1  | 04/03/20 09:30 | 04/03/20 20:53 | 56-55-3   |      |
| Benzo(a)pyrene   | <348    | ug/kg | 348    | 348  | 1  | 04/03/20 09:30 | 04/03/20 20:53 | 50-32-8   |      |
| Benzo(b)fluoranthene   | <348    | ug/kg | 348    | 348  | 1  | 04/03/20 09:30 | 04/03/20 20:53 | 205-99-2  |      |
| Benzo(g,h,i)perylene   | <348    | ug/kg | 348    | 348  | 1  | 04/03/20 09:30 | 04/03/20 20:53 | 191-24-2  |      |
| Benzo(k)fluoranthene   | <348    | ug/kg | 348    | 348  | 1  | 04/03/20 09:30 | 04/03/20 20:53 | 207-08-9  |      |
| Chrysene   | <348    | ug/kg | 348    | 348  | 1  | 04/03/20 09:30 | 04/03/20 20:53 | 218-01-9  |      |
| Dibenz(a,h)anthracene  | <348    | ug/kg | 348    | 348  | 1  | 04/03/20 09:30 | 04/03/20 20:53 | 53-70-3   |      |
| Fluoranthene   | <348    | ug/kg | 348    | 348  | 1  | 04/03/20 09:30 | 04/03/20 20:53 | 206-44-0  |      |
| Fluorene   | <348    | ug/kg | 348    | 348  | 1  | 04/03/20 09:30 | 04/03/20 20:53 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | <348    | ug/kg | 348    | 348  | 1  | 04/03/20 09:30 | 04/03/20 20:53 | 193-39-5  |      |
| 2-Methylnaphthalene  | <348    | ug/kg | 348    | 348  | 1  | 04/03/20 09:30 | 04/03/20 20:53 | 91-57-6   |      |
| Naphthalene  | <348    | ug/kg | 348    | 348  | 1  | 04/03/20 09:30 | 04/03/20 20:53 | 91-20-3   |      |
| Phenanthrene   | <348    | ug/kg | 348    | 348  | 1  | 04/03/20 09:30 | 04/03/20 20:53 | 85-01-8   |      |
| Pyrene   | <348    | ug/kg | 348    | 348  | 1  | 04/03/20 09:30 | 04/03/20 20:53 | 129-00-0  |      |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |           |      |
| 2-Fluorobiphenyl (S)   | 67      | %     | 37-111 |      | 1  | 04/03/20 09:30 | 04/03/20 20:53 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 79      | %     | 29-124 |      | 1  | 04/03/20 09:30 | 04/03/20 20:53 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                                       |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260  |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |      |    |                |                |           |      |
| Acetone  | <1020   | ug/kg | 1020   | 1020 | 1  |                | 04/03/20 19:49 | 67-64-1   |      |
| Acrylonitrile  | <102    | ug/kg | 102    | 102  | 1  |                | 04/03/20 19:49 | 107-13-1  |      |
| tert-Amylmethyl ether  | <255    | ug/kg | 255    | 255  | 1  |                | 04/03/20 19:49 | 994-05-8  | N2   |
| Benzene  | <51.0   | ug/kg | 51.0   | 51.0 | 1  |                | 04/03/20 19:49 | 71-43-2   |      |
| Bromobenzene   | <102    | ug/kg | 102    | 102  | 1  |                | 04/03/20 19:49 | 108-86-1  |      |
| Bromochloromethane   | <25.5   | ug/kg | 51.0   | 25.5 | 1  |                | 04/03/20 19:49 | 74-97-5   |      |
| Bromodichloromethane   | <102    | ug/kg | 102    | 102  | 1  |                | 04/03/20 19:49 | 75-27-4   |      |
| Bromoform  | <102    | ug/kg | 102    | 102  | 1  |                | 04/03/20 19:49 | 75-25-2   |      |
| Bromomethane   | <204    | ug/kg | 204    | 204  | 1  |                | 04/03/20 19:49 | 74-83-9   | L1   |
| 2-Butanone (MEK)   | <764    | ug/kg | 764    | 764  | 1  |                | 04/03/20 19:49 | 78-93-3   |      |
| tert-Butyl Alcohol   | <2550   | ug/kg | 2550   | 2550 | 1  |                | 04/03/20 19:49 | 75-65-0   |      |
| n-Butylbenzene   | <51.0   | ug/kg | 51.0   | 51.0 | 1  |                | 04/03/20 19:49 | 104-51-8  |      |
| sec-Butylbenzene   | <51.0   | ug/kg | 51.0   | 51.0 | 1  |                | 04/03/20 19:49 | 135-98-8  |      |
| tert-Butylbenzene  | <51.0   | ug/kg | 51.0   | 51.0 | 1  |                | 04/03/20 19:49 | 98-06-6   |      |
| Carbon disulfide   | <255    | ug/kg | 255    | 255  | 1  |                | 04/03/20 19:49 | 75-15-0   |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

Sample: MW-109 (4-5') Lab ID: 50253160018 Collected: 03/25/20 09:40 Received: 03/27/20 08:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Carbon tetrachloride           | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 04/03/20 19:49 | 56-23-5    |      |
| Chlorobenzene                  | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 04/03/20 19:49 | 108-90-7   |      |
| Chloroethane                   | <255    | ug/kg  | 255  | 255  | 1  |          | 04/03/20 19:49 | 75-00-3    |      |
| Chloroform                     | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 04/03/20 19:49 | 67-66-3    |      |
| Chloromethane                  | <255    | ug/kg  | 255  | 255  | 1  |          | 04/03/20 19:49 | 74-87-3    |      |
| Cyclohexane                    | <510    | ug/kg  | 510  | 510  | 1  |          | 04/03/20 19:49 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 04/03/20 19:49 | 96-12-8    |      |
| Dibromochloromethane           | <102    | ug/kg  | 102  | 102  | 1  |          | 04/03/20 19:49 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 04/03/20 19:49 | 106-93-4   |      |
| Dibromomethane                 | <255    | ug/kg  | 255  | 255  | 1  |          | 04/03/20 19:49 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <102    | ug/kg  | 102  | 102  | 1  |          | 04/03/20 19:49 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <102    | ug/kg  | 102  | 102  | 1  |          | 04/03/20 19:49 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <102    | ug/kg  | 102  | 102  | 1  |          | 04/03/20 19:49 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <102    | ug/kg  | 1020 | 102  | 1  |          | 04/03/20 19:49 | 110-57-6   |      |
| Dichlorodifluoromethane        | <255    | ug/kg  | 255  | 255  | 1  |          | 04/03/20 19:49 | 75-71-8    |      |
| 1,1-Dichloroethane             | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 04/03/20 19:49 | 75-34-3    |      |
| 1,2-Dichloroethane             | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 04/03/20 19:49 | 107-06-2   |      |
| 1,1-Dichloroethene             | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 04/03/20 19:49 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 04/03/20 19:49 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 04/03/20 19:49 | 156-60-5   |      |
| 1,2-Dichloropropane            | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 04/03/20 19:49 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <102    | ug/kg  | 102  | 102  | 1  |          | 04/03/20 19:49 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <102    | ug/kg  | 102  | 102  | 1  |          | 04/03/20 19:49 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <204    | ug/kg  | 204  | 204  | 1  |          | 04/03/20 19:49 | 60-29-7    |      |
| Diisopropyl ether              | <255    | ug/kg  | 255  | 255  | 1  |          | 04/03/20 19:49 | 108-20-3   | N2   |
| Ethylbenzene                   | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 04/03/20 19:49 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <255    | ug/kg  | 255  | 255  | 1  |          | 04/03/20 19:49 | 637-92-3   | N2   |
| Hexachloroethane               | <306    | ug/kg  | 306  | 306  | 1  |          | 04/03/20 19:49 | 67-72-1    | N2   |
| 2-Hexanone                     | <2550   | ug/kg  | 2550 | 2550 | 1  |          | 04/03/20 19:49 | 591-78-6   |      |
| Iodomethane                    | <102    | ug/kg  | 1020 | 102  | 1  |          | 04/03/20 19:49 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <255    | ug/kg  | 255  | 255  | 1  |          | 04/03/20 19:49 | 98-82-8    |      |
| p-Isopropyltoluene             | <25.5   | ug/kg  | 51.0 | 25.5 | 1  |          | 04/03/20 19:49 | 99-87-6    |      |
| Methylene Chloride             | <102    | ug/kg  | 102  | 102  | 1  |          | 04/03/20 19:49 | 75-09-2    |      |
| 2-Methylnaphthalene            | <336    | ug/kg  | 336  | 336  | 1  |          | 04/03/20 19:49 | 91-57-6    | N2   |
| 4-Methyl-2-pentanone (MIBK)    | <2550   | ug/kg  | 2550 | 2550 | 1  |          | 04/03/20 19:49 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <255    | ug/kg  | 255  | 255  | 1  |          | 04/03/20 19:49 | 1634-04-4  |      |
| Naphthalene                    | <336    | ug/kg  | 336  | 336  | 1  |          | 04/03/20 19:49 | 91-20-3    |      |
| n-Propylbenzene                | <102    | ug/kg  | 102  | 102  | 1  |          | 04/03/20 19:49 | 103-65-1   |      |
| Styrene                        | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 04/03/20 19:49 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <102    | ug/kg  | 102  | 102  | 1  |          | 04/03/20 19:49 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane      | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 04/03/20 19:49 | 79-34-5    |      |
| Tetrachloroethene              | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 04/03/20 19:49 | 127-18-4   |      |
| Tetrahydrofuran                | <1020   | ug/kg  | 1020 | 1020 | 1  |          | 04/03/20 19:49 | 109-99-9   | N2   |
| Toluene                        | <102    | ug/kg  | 102  | 102  | 1  |          | 04/03/20 19:49 | 108-88-3   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-109 (4-5)**      **Lab ID: 50253160018**      Collected: 03/25/20 09:40      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|---------|--|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| 1,2,3-Trichlorobenzene         | <255    | ug/kg  | 255    | 255  | 1  |          | 04/03/20 19:49 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene         | <255    | ug/kg  | 255    | 255  | 1  |          | 04/03/20 19:49 | 120-82-1    |      |
| 1,1,1-Trichloroethane          | <51.0   | ug/kg  | 51.0   | 51.0 | 1  |          | 04/03/20 19:49 | 71-55-6     |      |
| 1,1,2-Trichloroethane          | <51.0   | ug/kg  | 51.0   | 51.0 | 1  |          | 04/03/20 19:49 | 79-00-5     |      |
| Trichloroethene                | <51.0   | ug/kg  | 51.0   | 51.0 | 1  |          | 04/03/20 19:49 | 79-01-6     |      |
| Trichlorofluoromethane         | <102    | ug/kg  | 102    | 102  | 1  |          | 04/03/20 19:49 | 75-69-4     |      |
| 1,2,3-Trichloropropane         | <102    | ug/kg  | 102    | 102  | 1  |          | 04/03/20 19:49 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene         | <255    | ug/kg  | 255    | 255  | 1  |          | 04/03/20 19:49 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene         | <102    | ug/kg  | 102    | 102  | 1  |          | 04/03/20 19:49 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | <102    | ug/kg  | 102    | 102  | 1  |          | 04/03/20 19:49 | 108-67-8    |      |
| Vinyl chloride                 | <40.8   | ug/kg  | 40.8   | 40.8 | 1  |          | 04/03/20 19:49 | 75-01-4     |      |
| m&p-Xylene                     | <25.5   | ug/kg  | 51.0   | 25.5 | 1  |          | 04/03/20 19:49 | 179601-23-1 |      |
| o-Xylene                       | <25.5   | ug/kg  | 51.0   | 25.5 | 1  |          | 04/03/20 19:49 | 95-47-6     |      |
| <b>Surrogates</b>              |         |  |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)       | 100     | %  | 62-137 |      | 1  |          | 04/03/20 19:49 | 1868-53-7   |      |
| Toluene-d8 (S)                 | 106     | %  | 64-139 |      | 1  |          | 04/03/20 19:49 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)       | 96      | %  | 60-142 |      | 1  |          | 04/03/20 19:49 | 460-00-4    |      |
| <b>Percent Moisture</b>        |         | Analytical Method: SM 2540G<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Percent Moisture               | 5.2     | %  | 0.10   | 0.10 | 1  |          | 04/01/20 09:03 |             |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-110 (4-5') Lab ID: 50253160019** Collected: 03/25/20 10:05 Received: 03/27/20 08:10 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                 |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                      |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                         |         |       |        |      |    |                |                |           |      |
| n-Butanol   | <4670   | ug/kg | 4670   | 4670 | 1  |                | 03/30/20 23:17 | 71-36-3   |      |
| Ethanol   | <2650   | ug/kg | 2650   | 2650 | 1  |                | 03/30/20 23:17 | 64-17-5   | B0   |
| Methanol  | 17600   | ug/kg | 4670   | 4670 | 1  |                | 03/30/20 23:17 | 67-56-1   | B0   |
| <b>8270 PAH Soil</b>  |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                         |         |       |        |      |    |                |                |           |      |
| Acenaphthene  | <350    | ug/kg | 350    | 350  | 1  | 04/03/20 09:30 | 04/03/20 21:44 | 83-32-9   |      |
| Acenaphthylene  | <350    | ug/kg | 350    | 350  | 1  | 04/03/20 09:30 | 04/03/20 21:44 | 208-96-8  |      |
| Anthracene  | <350    | ug/kg | 350    | 350  | 1  | 04/03/20 09:30 | 04/03/20 21:44 | 120-12-7  |      |
| Benzo(a)anthracene  | <350    | ug/kg | 350    | 350  | 1  | 04/03/20 09:30 | 04/03/20 21:44 | 56-55-3   |      |
| Benzo(a)pyrene  | <350    | ug/kg | 350    | 350  | 1  | 04/03/20 09:30 | 04/03/20 21:44 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <350    | ug/kg | 350    | 350  | 1  | 04/03/20 09:30 | 04/03/20 21:44 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <350    | ug/kg | 350    | 350  | 1  | 04/03/20 09:30 | 04/03/20 21:44 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <350    | ug/kg | 350    | 350  | 1  | 04/03/20 09:30 | 04/03/20 21:44 | 207-08-9  |      |
| Chrysene  | <350    | ug/kg | 350    | 350  | 1  | 04/03/20 09:30 | 04/03/20 21:44 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | <350    | ug/kg | 350    | 350  | 1  | 04/03/20 09:30 | 04/03/20 21:44 | 53-70-3   |      |
| Fluoranthene  | <350    | ug/kg | 350    | 350  | 1  | 04/03/20 09:30 | 04/03/20 21:44 | 206-44-0  |      |
| Fluorene  | <350    | ug/kg | 350    | 350  | 1  | 04/03/20 09:30 | 04/03/20 21:44 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene  | <350    | ug/kg | 350    | 350  | 1  | 04/03/20 09:30 | 04/03/20 21:44 | 193-39-5  |      |
| 2-Methylnaphthalene   | <350    | ug/kg | 350    | 350  | 1  | 04/03/20 09:30 | 04/03/20 21:44 | 91-57-6   |      |
| Naphthalene   | <350    | ug/kg | 350    | 350  | 1  | 04/03/20 09:30 | 04/03/20 21:44 | 91-20-3   |      |
| Phenanthrene  | <350    | ug/kg | 350    | 350  | 1  | 04/03/20 09:30 | 04/03/20 21:44 | 85-01-8   |      |
| Pyrene  | <350    | ug/kg | 350    | 350  | 1  | 04/03/20 09:30 | 04/03/20 21:44 | 129-00-0  |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| 2-Fluorobiphenyl (S)  | 59      | %     | 37-111 |      | 1  | 04/03/20 09:30 | 04/03/20 21:44 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 73      | %     | 29-124 |      | 1  | 04/03/20 09:30 | 04/03/20 21:44 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                                  |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                                     |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                         |         |       |        |      |    |                |                |           |      |
| Acetone   | <1110   | ug/kg | 1110   | 1110 | 1  |                | 04/03/20 20:22 | 67-64-1   |      |
| Acrylonitrile   | <111    | ug/kg | 111    | 111  | 1  |                | 04/03/20 20:22 | 107-13-1  |      |
| tert-Amylmethyl ether   | <276    | ug/kg | 276    | 276  | 1  |                | 04/03/20 20:22 | 994-05-8  | N2   |
| Benzene   | <55.3   | ug/kg | 55.3   | 55.3 | 1  |                | 04/03/20 20:22 | 71-43-2   |      |
| Bromobenzene  | <111    | ug/kg | 111    | 111  | 1  |                | 04/03/20 20:22 | 108-86-1  |      |
| Bromochloromethane  | <27.6   | ug/kg | 55.3   | 27.6 | 1  |                | 04/03/20 20:22 | 74-97-5   |      |
| Bromodichloromethane  | <111    | ug/kg | 111    | 111  | 1  |                | 04/03/20 20:22 | 75-27-4   |      |
| Bromoform   | <111    | ug/kg | 111    | 111  | 1  |                | 04/03/20 20:22 | 75-25-2   |      |
| Bromomethane  | <221    | ug/kg | 221    | 221  | 1  |                | 04/03/20 20:22 | 74-83-9   | L1   |
| 2-Butanone (MEK)  | <829    | ug/kg | 829    | 829  | 1  |                | 04/03/20 20:22 | 78-93-3   |      |
| tert-Butyl Alcohol  | <2760   | ug/kg | 2760   | 2760 | 1  |                | 04/03/20 20:22 | 75-65-0   |      |
| n-Butylbenzene  | <55.3   | ug/kg | 55.3   | 55.3 | 1  |                | 04/03/20 20:22 | 104-51-8  |      |
| sec-Butylbenzene  | <55.3   | ug/kg | 55.3   | 55.3 | 1  |                | 04/03/20 20:22 | 135-98-8  |      |
| tert-Butylbenzene   | <55.3   | ug/kg | 55.3   | 55.3 | 1  |                | 04/03/20 20:22 | 98-06-6   |      |
| Carbon disulfide  | <276    | ug/kg | 276    | 276  | 1  |                | 04/03/20 20:22 | 75-15-0   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-110 (4-5') Lab ID: 50253160019** Collected: 03/25/20 10:05 Received: 03/27/20 08:10 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Carbon tetrachloride           | <55.3   | ug/kg  | 55.3 | 55.3 | 1  |          | 04/03/20 20:22 | 56-23-5    |      |
| Chlorobenzene                  | <55.3   | ug/kg  | 55.3 | 55.3 | 1  |          | 04/03/20 20:22 | 108-90-7   |      |
| Chloroethane                   | <276    | ug/kg  | 276  | 276  | 1  |          | 04/03/20 20:22 | 75-00-3    |      |
| Chloroform                     | <55.3   | ug/kg  | 55.3 | 55.3 | 1  |          | 04/03/20 20:22 | 67-66-3    |      |
| Chloromethane                  | <276    | ug/kg  | 276  | 276  | 1  |          | 04/03/20 20:22 | 74-87-3    |      |
| Cyclohexane                    | <553    | ug/kg  | 553  | 553  | 1  |          | 04/03/20 20:22 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <55.3   | ug/kg  | 55.3 | 55.3 | 1  |          | 04/03/20 20:22 | 96-12-8    |      |
| Dibromochloromethane           | <111    | ug/kg  | 111  | 111  | 1  |          | 04/03/20 20:22 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <55.3   | ug/kg  | 55.3 | 55.3 | 1  |          | 04/03/20 20:22 | 106-93-4   |      |
| Dibromomethane                 | <276    | ug/kg  | 276  | 276  | 1  |          | 04/03/20 20:22 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <111    | ug/kg  | 111  | 111  | 1  |          | 04/03/20 20:22 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <111    | ug/kg  | 111  | 111  | 1  |          | 04/03/20 20:22 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <111    | ug/kg  | 111  | 111  | 1  |          | 04/03/20 20:22 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <111    | ug/kg  | 1110 | 111  | 1  |          | 04/03/20 20:22 | 110-57-6   |      |
| Dichlorodifluoromethane        | <276    | ug/kg  | 276  | 276  | 1  |          | 04/03/20 20:22 | 75-71-8    |      |
| 1,1-Dichloroethane             | <55.3   | ug/kg  | 55.3 | 55.3 | 1  |          | 04/03/20 20:22 | 75-34-3    |      |
| 1,2-Dichloroethane             | <55.3   | ug/kg  | 55.3 | 55.3 | 1  |          | 04/03/20 20:22 | 107-06-2   |      |
| 1,1-Dichloroethene             | <55.3   | ug/kg  | 55.3 | 55.3 | 1  |          | 04/03/20 20:22 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <55.3   | ug/kg  | 55.3 | 55.3 | 1  |          | 04/03/20 20:22 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <55.3   | ug/kg  | 55.3 | 55.3 | 1  |          | 04/03/20 20:22 | 156-60-5   |      |
| 1,2-Dichloropropane            | <55.3   | ug/kg  | 55.3 | 55.3 | 1  |          | 04/03/20 20:22 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <111    | ug/kg  | 111  | 111  | 1  |          | 04/03/20 20:22 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <111    | ug/kg  | 111  | 111  | 1  |          | 04/03/20 20:22 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <221    | ug/kg  | 221  | 221  | 1  |          | 04/03/20 20:22 | 60-29-7    |      |
| Diisopropyl ether              | <276    | ug/kg  | 276  | 276  | 1  |          | 04/03/20 20:22 | 108-20-3   | N2   |
| Ethylbenzene                   | <55.3   | ug/kg  | 55.3 | 55.3 | 1  |          | 04/03/20 20:22 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <276    | ug/kg  | 276  | 276  | 1  |          | 04/03/20 20:22 | 637-92-3   | N2   |
| Hexachloroethane               | <332    | ug/kg  | 332  | 332  | 1  |          | 04/03/20 20:22 | 67-72-1    | N2   |
| 2-Hexanone                     | <2760   | ug/kg  | 2760 | 2760 | 1  |          | 04/03/20 20:22 | 591-78-6   |      |
| Iodomethane                    | <111    | ug/kg  | 1110 | 111  | 1  |          | 04/03/20 20:22 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <276    | ug/kg  | 276  | 276  | 1  |          | 04/03/20 20:22 | 98-82-8    |      |
| p-Isopropyltoluene             | <27.6   | ug/kg  | 55.3 | 27.6 | 1  |          | 04/03/20 20:22 | 99-87-6    |      |
| Methylene Chloride             | <111    | ug/kg  | 111  | 111  | 1  |          | 04/03/20 20:22 | 75-09-2    |      |
| 2-Methylnaphthalene            | <365    | ug/kg  | 365  | 365  | 1  |          | 04/03/20 20:22 | 91-57-6    | N2   |
| 4-Methyl-2-pentanone (MIBK)    | <2760   | ug/kg  | 2760 | 2760 | 1  |          | 04/03/20 20:22 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <276    | ug/kg  | 276  | 276  | 1  |          | 04/03/20 20:22 | 1634-04-4  |      |
| Naphthalene                    | <365    | ug/kg  | 365  | 365  | 1  |          | 04/03/20 20:22 | 91-20-3    |      |
| n-Propylbenzene                | <111    | ug/kg  | 111  | 111  | 1  |          | 04/03/20 20:22 | 103-65-1   |      |
| Styrene                        | <55.3   | ug/kg  | 55.3 | 55.3 | 1  |          | 04/03/20 20:22 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <111    | ug/kg  | 111  | 111  | 1  |          | 04/03/20 20:22 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane      | <55.3   | ug/kg  | 55.3 | 55.3 | 1  |          | 04/03/20 20:22 | 79-34-5    |      |
| Tetrachloroethene              | <55.3   | ug/kg  | 55.3 | 55.3 | 1  |          | 04/03/20 20:22 | 127-18-4   |      |
| Tetrahydrofuran                | <1110   | ug/kg  | 1110 | 1110 | 1  |          | 04/03/20 20:22 | 109-99-9   | N2   |
| Toluene                        | <111    | ug/kg  | 111  | 111  | 1  |          | 04/03/20 20:22 | 108-88-3   |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-110 (4-5') Lab ID: 50253160019** Collected: 03/25/20 10:05 Received: 03/27/20 08:10 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| 1,2,3-Trichlorobenzene                  | <276    | ug/kg | 276    | 276  | 1  |          | 04/03/20 20:22 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <276    | ug/kg | 276    | 276  | 1  |          | 04/03/20 20:22 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <55.3   | ug/kg | 55.3   | 55.3 | 1  |          | 04/03/20 20:22 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <55.3   | ug/kg | 55.3   | 55.3 | 1  |          | 04/03/20 20:22 | 79-00-5     |      |
| Trichloroethene                         | <55.3   | ug/kg | 55.3   | 55.3 | 1  |          | 04/03/20 20:22 | 79-01-6     |      |
| Trichlorofluoromethane                  | <111    | ug/kg | 111    | 111  | 1  |          | 04/03/20 20:22 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <111    | ug/kg | 111    | 111  | 1  |          | 04/03/20 20:22 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <276    | ug/kg | 276    | 276  | 1  |          | 04/03/20 20:22 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <111    | ug/kg | 111    | 111  | 1  |          | 04/03/20 20:22 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <111    | ug/kg | 111    | 111  | 1  |          | 04/03/20 20:22 | 108-67-8    |      |
| Vinyl chloride                          | <44.2   | ug/kg | 44.2   | 44.2 | 1  |          | 04/03/20 20:22 | 75-01-4     |      |
| m&p-Xylene                              | <27.6   | ug/kg | 55.3   | 27.6 | 1  |          | 04/03/20 20:22 | 179601-23-1 |      |
| o-Xylene                                | <27.6   | ug/kg | 55.3   | 27.6 | 1  |          | 04/03/20 20:22 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 100     | %     | 62-137 |      | 1  |          | 04/03/20 20:22 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 105     | %     | 64-139 |      | 1  |          | 04/03/20 20:22 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 98      | %     | 60-142 |      | 1  |          | 04/03/20 20:22 | 460-00-4    |      |
| <b>Percent Moisture</b>                 |         |       |        |      |    |          |                |             |      |
| Analytical Method: SM 2540G             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Percent Moisture                        | 5.8     | %     | 0.10   | 0.10 | 1  |          | 04/01/20 09:03 |             |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-113 (7-8)**      **Lab ID: 50253160020**      Collected: 03/24/20 09:45      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                      |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                           |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| n-Butanol  | <4950   | ug/kg | 4950   | 4950  | 1  |                | 03/30/20 23:26 | 71-36-3   |      |
| Ethanol  | <2810   | ug/kg | 2810   | 2810  | 1  |                | 03/30/20 23:26 | 64-17-5   | B0   |
| Methanol   | 11700   | ug/kg | 4950   | 4950  | 1  |                | 03/30/20 23:26 | 67-56-1   | B0   |
| <b>6010 MET ICP</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050        |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Arsenic  | <2140   | ug/kg | 2140   | 2140  | 1  | 03/31/20 06:15 | 04/05/20 14:26 | 7440-38-2 |      |
| Barium   | 8370    | ug/kg | 1070   | 1070  | 1  | 03/31/20 06:15 | 04/05/20 14:26 | 7440-39-3 |      |
| Chromium   | 5640    | ug/kg | 2140   | 2140  | 1  | 03/31/20 06:15 | 04/05/20 14:26 | 7440-47-3 |      |
| Lead   | <10700  | ug/kg | 10700  | 10700 | 1  | 03/31/20 06:15 | 04/05/20 14:26 | 7439-92-1 |      |
| <b>6020 MET ICPMS</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B       |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Cadmium  | <210    | ug/kg | 210    | 210   | 1  | 03/30/20 10:20 | 03/31/20 12:17 | 7440-43-9 |      |
| Selenium   | <2100   | ug/kg | 2100   | 2100  | 10 | 03/30/20 10:20 | 04/02/20 03:48 | 7782-49-2 | D3   |
| Silver   | <105    | ug/kg | 105    | 105   | 1  | 03/30/20 10:20 | 03/31/20 12:17 | 7440-22-4 |      |
| <b>7471 Mercury</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7471      Preparation Method: EPA 7471        |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Mercury  | <61.3   | ug/kg | 109    | 61.3  | 1  | 04/03/20 12:47 | 04/06/20 09:44 | 7439-97-6 |      |
| <b>8270 PAH Soil</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546 |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Acenaphthene   | <371    | ug/kg | 371    | 371   | 1  | 04/03/20 09:30 | 04/03/20 22:01 | 83-32-9   |      |
| Acenaphthylene   | <371    | ug/kg | 371    | 371   | 1  | 04/03/20 09:30 | 04/03/20 22:01 | 208-96-8  |      |
| Anthracene   | <371    | ug/kg | 371    | 371   | 1  | 04/03/20 09:30 | 04/03/20 22:01 | 120-12-7  |      |
| Benzo(a)anthracene   | <371    | ug/kg | 371    | 371   | 1  | 04/03/20 09:30 | 04/03/20 22:01 | 56-55-3   |      |
| Benzo(a)pyrene   | <371    | ug/kg | 371    | 371   | 1  | 04/03/20 09:30 | 04/03/20 22:01 | 50-32-8   |      |
| Benzo(b)fluoranthene   | <371    | ug/kg | 371    | 371   | 1  | 04/03/20 09:30 | 04/03/20 22:01 | 205-99-2  |      |
| Benzo(g,h,i)perylene   | <371    | ug/kg | 371    | 371   | 1  | 04/03/20 09:30 | 04/03/20 22:01 | 191-24-2  |      |
| Benzo(k)fluoranthene   | <371    | ug/kg | 371    | 371   | 1  | 04/03/20 09:30 | 04/03/20 22:01 | 207-08-9  |      |
| Chrysene   | <371    | ug/kg | 371    | 371   | 1  | 04/03/20 09:30 | 04/03/20 22:01 | 218-01-9  |      |
| Dibenz(a,h)anthracene  | <371    | ug/kg | 371    | 371   | 1  | 04/03/20 09:30 | 04/03/20 22:01 | 53-70-3   |      |
| Fluoranthene   | <371    | ug/kg | 371    | 371   | 1  | 04/03/20 09:30 | 04/03/20 22:01 | 206-44-0  |      |
| Fluorene   | <371    | ug/kg | 371    | 371   | 1  | 04/03/20 09:30 | 04/03/20 22:01 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | <371    | ug/kg | 371    | 371   | 1  | 04/03/20 09:30 | 04/03/20 22:01 | 193-39-5  |      |
| 2-Methylnaphthalene  | <371    | ug/kg | 371    | 371   | 1  | 04/03/20 09:30 | 04/03/20 22:01 | 91-57-6   |      |
| Naphthalene  | <371    | ug/kg | 371    | 371   | 1  | 04/03/20 09:30 | 04/03/20 22:01 | 91-20-3   |      |
| Phenanthrene   | <371    | ug/kg | 371    | 371   | 1  | 04/03/20 09:30 | 04/03/20 22:01 | 85-01-8   |      |
| Pyrene   | <371    | ug/kg | 371    | 371   | 1  | 04/03/20 09:30 | 04/03/20 22:01 | 129-00-0  |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)   | 67      | %     | 37-111 |       | 1  | 04/03/20 09:30 | 04/03/20 22:01 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 79      | %     | 29-124 |       | 1  | 04/03/20 09:30 | 04/03/20 22:01 | 1718-51-0 |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale

Pace Project No.: 50253160

Sample: MW-113 (7-8) Lab ID: 50253160020 Collected: 03/24/20 09:45 Received: 03/27/20 08:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Acetone                        | <1320   | ug/kg  | 1320 | 1320 | 1  |          | 04/03/20 20:55 | 67-64-1    |      |
| Acrylonitrile                  | <132    | ug/kg  | 132  | 132  | 1  |          | 04/03/20 20:55 | 107-13-1   |      |
| tert-Amylmethyl ether          | <329    | ug/kg  | 329  | 329  | 1  |          | 04/03/20 20:55 | 994-05-8   | N2   |
| Benzene                        | <65.8   | ug/kg  | 65.8 | 65.8 | 1  |          | 04/03/20 20:55 | 71-43-2    |      |
| Bromobenzene                   | <132    | ug/kg  | 132  | 132  | 1  |          | 04/03/20 20:55 | 108-86-1   |      |
| Bromochloromethane             | <32.9   | ug/kg  | 65.8 | 32.9 | 1  |          | 04/03/20 20:55 | 74-97-5    |      |
| Bromodichloromethane           | <132    | ug/kg  | 132  | 132  | 1  |          | 04/03/20 20:55 | 75-27-4    |      |
| Bromoform                      | <132    | ug/kg  | 132  | 132  | 1  |          | 04/03/20 20:55 | 75-25-2    |      |
| Bromomethane                   | <263    | ug/kg  | 263  | 263  | 1  |          | 04/03/20 20:55 | 74-83-9    | L1   |
| 2-Butanone (MEK)               | <987    | ug/kg  | 987  | 987  | 1  |          | 04/03/20 20:55 | 78-93-3    |      |
| tert-Butyl Alcohol             | <3290   | ug/kg  | 3290 | 3290 | 1  |          | 04/03/20 20:55 | 75-65-0    |      |
| n-Butylbenzene                 | <65.8   | ug/kg  | 65.8 | 65.8 | 1  |          | 04/03/20 20:55 | 104-51-8   |      |
| sec-Butylbenzene               | <65.8   | ug/kg  | 65.8 | 65.8 | 1  |          | 04/03/20 20:55 | 135-98-8   |      |
| tert-Butylbenzene              | <65.8   | ug/kg  | 65.8 | 65.8 | 1  |          | 04/03/20 20:55 | 98-06-6    |      |
| Carbon disulfide               | <329    | ug/kg  | 329  | 329  | 1  |          | 04/03/20 20:55 | 75-15-0    |      |
| Carbon tetrachloride           | <65.8   | ug/kg  | 65.8 | 65.8 | 1  |          | 04/03/20 20:55 | 56-23-5    |      |
| Chlorobenzene                  | <65.8   | ug/kg  | 65.8 | 65.8 | 1  |          | 04/03/20 20:55 | 108-90-7   |      |
| Chloroethane                   | <329    | ug/kg  | 329  | 329  | 1  |          | 04/03/20 20:55 | 75-00-3    |      |
| Chloroform                     | <65.8   | ug/kg  | 65.8 | 65.8 | 1  |          | 04/03/20 20:55 | 67-66-3    |      |
| Chloromethane                  | <329    | ug/kg  | 329  | 329  | 1  |          | 04/03/20 20:55 | 74-87-3    |      |
| Cyclohexane                    | <658    | ug/kg  | 658  | 658  | 1  |          | 04/03/20 20:55 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <65.8   | ug/kg  | 65.8 | 65.8 | 1  |          | 04/03/20 20:55 | 96-12-8    |      |
| Dibromochloromethane           | <132    | ug/kg  | 132  | 132  | 1  |          | 04/03/20 20:55 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <65.8   | ug/kg  | 65.8 | 65.8 | 1  |          | 04/03/20 20:55 | 106-93-4   |      |
| Dibromomethane                 | <329    | ug/kg  | 329  | 329  | 1  |          | 04/03/20 20:55 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <132    | ug/kg  | 132  | 132  | 1  |          | 04/03/20 20:55 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <132    | ug/kg  | 132  | 132  | 1  |          | 04/03/20 20:55 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <132    | ug/kg  | 132  | 132  | 1  |          | 04/03/20 20:55 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <132    | ug/kg  | 1320 | 132  | 1  |          | 04/03/20 20:55 | 110-57-6   |      |
| Dichlorodifluoromethane        | <329    | ug/kg  | 329  | 329  | 1  |          | 04/03/20 20:55 | 75-71-8    |      |
| 1,1-Dichloroethane             | <65.8   | ug/kg  | 65.8 | 65.8 | 1  |          | 04/03/20 20:55 | 75-34-3    |      |
| 1,2-Dichloroethane             | <65.8   | ug/kg  | 65.8 | 65.8 | 1  |          | 04/03/20 20:55 | 107-06-2   |      |
| 1,1-Dichloroethene             | <65.8   | ug/kg  | 65.8 | 65.8 | 1  |          | 04/03/20 20:55 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <65.8   | ug/kg  | 65.8 | 65.8 | 1  |          | 04/03/20 20:55 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <65.8   | ug/kg  | 65.8 | 65.8 | 1  |          | 04/03/20 20:55 | 156-60-5   |      |
| 1,2-Dichloropropane            | <65.8   | ug/kg  | 65.8 | 65.8 | 1  |          | 04/03/20 20:55 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <132    | ug/kg  | 132  | 132  | 1  |          | 04/03/20 20:55 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <132    | ug/kg  | 132  | 132  | 1  |          | 04/03/20 20:55 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <263    | ug/kg  | 263  | 263  | 1  |          | 04/03/20 20:55 | 60-29-7    |      |
| Diisopropyl ether              | <329    | ug/kg  | 329  | 329  | 1  |          | 04/03/20 20:55 | 108-20-3   | N2   |
| Ethylbenzene                   | <65.8   | ug/kg  | 65.8 | 65.8 | 1  |          | 04/03/20 20:55 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <329    | ug/kg  | 329  | 329  | 1  |          | 04/03/20 20:55 | 637-92-3   | N2   |
| Hexachloroethane               | <395    | ug/kg  | 395  | 395  | 1  |          | 04/03/20 20:55 | 67-72-1    | N2   |
| 2-Hexanone                     | <3290   | ug/kg  | 3290 | 3290 | 1  |          | 04/03/20 20:55 | 591-78-6   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-113 (7-8') Lab ID: 50253160020** Collected: 03/24/20 09:45 Received: 03/27/20 08:10 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Iodomethane                             | <132    | ug/kg | 1320   | 132  | 1  |          | 04/03/20 20:55 | 74-88-4     |      |
| Isopropylbenzene (Cumene)               | <329    | ug/kg | 329    | 329  | 1  |          | 04/03/20 20:55 | 98-82-8     |      |
| p-Isopropyltoluene                      | <32.9   | ug/kg | 65.8   | 32.9 | 1  |          | 04/03/20 20:55 | 99-87-6     |      |
| Methylene Chloride                      | <132    | ug/kg | 132    | 132  | 1  |          | 04/03/20 20:55 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <434    | ug/kg | 434    | 434  | 1  |          | 04/03/20 20:55 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <3290   | ug/kg | 3290   | 3290 | 1  |          | 04/03/20 20:55 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <329    | ug/kg | 329    | 329  | 1  |          | 04/03/20 20:55 | 1634-04-4   |      |
| Naphthalene                             | <434    | ug/kg | 434    | 434  | 1  |          | 04/03/20 20:55 | 91-20-3     |      |
| n-Propylbenzene                         | <132    | ug/kg | 132    | 132  | 1  |          | 04/03/20 20:55 | 103-65-1    |      |
| Styrene                                 | <65.8   | ug/kg | 65.8   | 65.8 | 1  |          | 04/03/20 20:55 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <132    | ug/kg | 132    | 132  | 1  |          | 04/03/20 20:55 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <65.8   | ug/kg | 65.8   | 65.8 | 1  |          | 04/03/20 20:55 | 79-34-5     |      |
| Tetrachloroethene                       | <65.8   | ug/kg | 65.8   | 65.8 | 1  |          | 04/03/20 20:55 | 127-18-4    |      |
| Tetrahydrofuran                         | <1320   | ug/kg | 1320   | 1320 | 1  |          | 04/03/20 20:55 | 109-99-9    | N2   |
| Toluene                                 | <132    | ug/kg | 132    | 132  | 1  |          | 04/03/20 20:55 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <329    | ug/kg | 329    | 329  | 1  |          | 04/03/20 20:55 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <329    | ug/kg | 329    | 329  | 1  |          | 04/03/20 20:55 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <65.8   | ug/kg | 65.8   | 65.8 | 1  |          | 04/03/20 20:55 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <65.8   | ug/kg | 65.8   | 65.8 | 1  |          | 04/03/20 20:55 | 79-00-5     |      |
| Trichloroethene                         | <65.8   | ug/kg | 65.8   | 65.8 | 1  |          | 04/03/20 20:55 | 79-01-6     |      |
| Trichlorofluoromethane                  | <132    | ug/kg | 132    | 132  | 1  |          | 04/03/20 20:55 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <132    | ug/kg | 132    | 132  | 1  |          | 04/03/20 20:55 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <329    | ug/kg | 329    | 329  | 1  |          | 04/03/20 20:55 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <132    | ug/kg | 132    | 132  | 1  |          | 04/03/20 20:55 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <132    | ug/kg | 132    | 132  | 1  |          | 04/03/20 20:55 | 108-67-8    |      |
| Vinyl chloride                          | <52.6   | ug/kg | 52.6   | 52.6 | 1  |          | 04/03/20 20:55 | 75-01-4     |      |
| m&p-Xylene                              | <32.9   | ug/kg | 65.8   | 32.9 | 1  |          | 04/03/20 20:55 | 179601-23-1 |      |
| o-Xylene                                | <32.9   | ug/kg | 65.8   | 32.9 | 1  |          | 04/03/20 20:55 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 110     | %     | 62-137 |      | 1  |          | 04/03/20 20:55 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 118     | %     | 64-139 |      | 1  |          | 04/03/20 20:55 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 112     | %     | 60-142 |      | 1  |          | 04/03/20 20:55 | 460-00-4    |      |

**Percent Moisture**

Analytical Method: SM 2540G  
Pace Analytical Services - Indianapolis

Percent Moisture **11.0** % 0.10 0.10 1 04/01/20 09:03

**7196 Chromium, Hexavalent**

Analytical Method: EPA 7196A Preparation Method: EPA 3060A  
Pace Analytical Services - Indianapolis

Chromium, Hexavalent **<2.2** mg/kg 2.2 2.2 1 04/17/20 09:08 04/18/20 10:03 18540-29-9

**Trivalent Chromium Calculation**

Analytical Method: Trivalent Chromium Calculation  
Pace Analytical Services - Indianapolis

Chromium, Trivalent **5.6** mg/kg 1.0 1 04/23/20 07:38 16065-83-1

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-114 (8-9)**      **Lab ID: 50253160021**      Collected: 03/24/20 11:10      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                      |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                           |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| n-Butanol  | <5170   | ug/kg | 5170   | 5170  | 1  |                | 03/30/20 23:35 | 71-36-3   |      |
| Ethanol  | <2940   | ug/kg | 2940   | 2940  | 1  |                | 03/30/20 23:35 | 64-17-5   | B0   |
| Methanol   | 6850    | ug/kg | 5170   | 5170  | 1  |                | 03/30/20 23:35 | 67-56-1   | B0   |
| <b>6010 MET ICP</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050        |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Arsenic  | 6350    | ug/kg | 2210   | 2210  | 1  | 03/31/20 06:15 | 04/05/20 14:28 | 7440-38-2 |      |
| Barium   | 63900   | ug/kg | 1100   | 1100  | 1  | 03/31/20 06:15 | 04/05/20 14:28 | 7440-39-3 |      |
| Chromium   | 16300   | ug/kg | 2210   | 2210  | 1  | 03/31/20 06:15 | 04/05/20 14:28 | 7440-47-3 |      |
| Lead   | 21500   | ug/kg | 11000  | 11000 | 1  | 03/31/20 06:15 | 04/05/20 14:28 | 7439-92-1 |      |
| <b>6020 MET ICPMS</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B       |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Cadmium  | 263     | ug/kg | 219    | 219   | 1  | 03/30/20 10:20 | 03/31/20 12:26 | 7440-43-9 |      |
| Selenium   | <2190   | ug/kg | 2190   | 2190  | 10 | 03/30/20 10:20 | 04/02/20 03:52 | 7782-49-2 | D3   |
| Silver   | <110    | ug/kg | 110    | 110   | 1  | 03/30/20 10:20 | 03/31/20 12:26 | 7440-22-4 |      |
| <b>7471 Mercury</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7471      Preparation Method: EPA 7471        |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Mercury  | <67.7   | ug/kg | 121    | 67.7  | 1  | 04/03/20 12:47 | 04/06/20 09:46 | 7439-97-6 |      |
| <b>8270 PAH Soil</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546 |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Acenaphthene   | <383    | ug/kg | 383    | 383   | 1  | 04/03/20 09:30 | 04/03/20 22:18 | 83-32-9   |      |
| Acenaphthylene   | <383    | ug/kg | 383    | 383   | 1  | 04/03/20 09:30 | 04/03/20 22:18 | 208-96-8  |      |
| Anthracene   | <383    | ug/kg | 383    | 383   | 1  | 04/03/20 09:30 | 04/03/20 22:18 | 120-12-7  |      |
| Benzo(a)anthracene   | <383    | ug/kg | 383    | 383   | 1  | 04/03/20 09:30 | 04/03/20 22:18 | 56-55-3   |      |
| Benzo(a)pyrene   | <383    | ug/kg | 383    | 383   | 1  | 04/03/20 09:30 | 04/03/20 22:18 | 50-32-8   |      |
| Benzo(b)fluoranthene   | <383    | ug/kg | 383    | 383   | 1  | 04/03/20 09:30 | 04/03/20 22:18 | 205-99-2  |      |
| Benzo(g,h,i)perylene   | <383    | ug/kg | 383    | 383   | 1  | 04/03/20 09:30 | 04/03/20 22:18 | 191-24-2  |      |
| Benzo(k)fluoranthene   | <383    | ug/kg | 383    | 383   | 1  | 04/03/20 09:30 | 04/03/20 22:18 | 207-08-9  |      |
| Chrysene   | <383    | ug/kg | 383    | 383   | 1  | 04/03/20 09:30 | 04/03/20 22:18 | 218-01-9  |      |
| Dibenz(a,h)anthracene  | <383    | ug/kg | 383    | 383   | 1  | 04/03/20 09:30 | 04/03/20 22:18 | 53-70-3   |      |
| Fluoranthene   | 724     | ug/kg | 383    | 383   | 1  | 04/03/20 09:30 | 04/03/20 22:18 | 206-44-0  |      |
| Fluorene   | <383    | ug/kg | 383    | 383   | 1  | 04/03/20 09:30 | 04/03/20 22:18 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | <383    | ug/kg | 383    | 383   | 1  | 04/03/20 09:30 | 04/03/20 22:18 | 193-39-5  |      |
| 2-Methylnaphthalene  | <383    | ug/kg | 383    | 383   | 1  | 04/03/20 09:30 | 04/03/20 22:18 | 91-57-6   |      |
| Naphthalene  | <383    | ug/kg | 383    | 383   | 1  | 04/03/20 09:30 | 04/03/20 22:18 | 91-20-3   |      |
| Phenanthrene   | 561     | ug/kg | 383    | 383   | 1  | 04/03/20 09:30 | 04/03/20 22:18 | 85-01-8   |      |
| Pyrene   | 528     | ug/kg | 383    | 383   | 1  | 04/03/20 09:30 | 04/03/20 22:18 | 129-00-0  |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)   | 68      | %     | 37-111 |       | 1  | 04/03/20 09:30 | 04/03/20 22:18 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 68      | %     | 29-124 |       | 1  | 04/03/20 09:30 | 04/03/20 22:18 | 1718-51-0 |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale

Pace Project No.: 50253160

Sample: MW-114 (8-9) Lab ID: 50253160021 Collected: 03/24/20 11:10 Received: 03/27/20 08:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Acetone                        | <2030   | ug/kg  | 2030 | 2030 | 1  |          | 04/03/20 21:27 | 67-64-1    |      |
| Acrylonitrile                  | <203    | ug/kg  | 203  | 203  | 1  |          | 04/03/20 21:27 | 107-13-1   |      |
| tert-Amylmethyl ether          | <507    | ug/kg  | 507  | 507  | 1  |          | 04/03/20 21:27 | 994-05-8   | N2   |
| Benzene                        | <101    | ug/kg  | 101  | 101  | 1  |          | 04/03/20 21:27 | 71-43-2    |      |
| Bromobenzene                   | <203    | ug/kg  | 203  | 203  | 1  |          | 04/03/20 21:27 | 108-86-1   |      |
| Bromochloromethane             | <50.7   | ug/kg  | 101  | 50.7 | 1  |          | 04/03/20 21:27 | 74-97-5    |      |
| Bromodichloromethane           | <203    | ug/kg  | 203  | 203  | 1  |          | 04/03/20 21:27 | 75-27-4    |      |
| Bromoform                      | <203    | ug/kg  | 203  | 203  | 1  |          | 04/03/20 21:27 | 75-25-2    |      |
| Bromomethane                   | <406    | ug/kg  | 406  | 406  | 1  |          | 04/03/20 21:27 | 74-83-9    | L1   |
| 2-Butanone (MEK)               | <1520   | ug/kg  | 1520 | 1520 | 1  |          | 04/03/20 21:27 | 78-93-3    |      |
| tert-Butyl Alcohol             | <5070   | ug/kg  | 5070 | 5070 | 1  |          | 04/03/20 21:27 | 75-65-0    |      |
| n-Butylbenzene                 | <101    | ug/kg  | 101  | 101  | 1  |          | 04/03/20 21:27 | 104-51-8   |      |
| sec-Butylbenzene               | <101    | ug/kg  | 101  | 101  | 1  |          | 04/03/20 21:27 | 135-98-8   |      |
| tert-Butylbenzene              | <101    | ug/kg  | 101  | 101  | 1  |          | 04/03/20 21:27 | 98-06-6    |      |
| Carbon disulfide               | <507    | ug/kg  | 507  | 507  | 1  |          | 04/03/20 21:27 | 75-15-0    |      |
| Carbon tetrachloride           | <101    | ug/kg  | 101  | 101  | 1  |          | 04/03/20 21:27 | 56-23-5    |      |
| Chlorobenzene                  | <101    | ug/kg  | 101  | 101  | 1  |          | 04/03/20 21:27 | 108-90-7   |      |
| Chloroethane                   | <507    | ug/kg  | 507  | 507  | 1  |          | 04/03/20 21:27 | 75-00-3    |      |
| Chloroform                     | <101    | ug/kg  | 101  | 101  | 1  |          | 04/03/20 21:27 | 67-66-3    |      |
| Chloromethane                  | <507    | ug/kg  | 507  | 507  | 1  |          | 04/03/20 21:27 | 74-87-3    |      |
| Cyclohexane                    | <1010   | ug/kg  | 1010 | 1010 | 1  |          | 04/03/20 21:27 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <101    | ug/kg  | 101  | 101  | 1  |          | 04/03/20 21:27 | 96-12-8    |      |
| Dibromochloromethane           | <203    | ug/kg  | 203  | 203  | 1  |          | 04/03/20 21:27 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <101    | ug/kg  | 101  | 101  | 1  |          | 04/03/20 21:27 | 106-93-4   |      |
| Dibromomethane                 | <507    | ug/kg  | 507  | 507  | 1  |          | 04/03/20 21:27 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <203    | ug/kg  | 203  | 203  | 1  |          | 04/03/20 21:27 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <203    | ug/kg  | 203  | 203  | 1  |          | 04/03/20 21:27 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <203    | ug/kg  | 203  | 203  | 1  |          | 04/03/20 21:27 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <203    | ug/kg  | 2030 | 203  | 1  |          | 04/03/20 21:27 | 110-57-6   |      |
| Dichlorodifluoromethane        | <507    | ug/kg  | 507  | 507  | 1  |          | 04/03/20 21:27 | 75-71-8    |      |
| 1,1-Dichloroethane             | <101    | ug/kg  | 101  | 101  | 1  |          | 04/03/20 21:27 | 75-34-3    |      |
| 1,2-Dichloroethane             | <101    | ug/kg  | 101  | 101  | 1  |          | 04/03/20 21:27 | 107-06-2   |      |
| 1,1-Dichloroethene             | <101    | ug/kg  | 101  | 101  | 1  |          | 04/03/20 21:27 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <101    | ug/kg  | 101  | 101  | 1  |          | 04/03/20 21:27 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <101    | ug/kg  | 101  | 101  | 1  |          | 04/03/20 21:27 | 156-60-5   |      |
| 1,2-Dichloropropane            | <101    | ug/kg  | 101  | 101  | 1  |          | 04/03/20 21:27 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <203    | ug/kg  | 203  | 203  | 1  |          | 04/03/20 21:27 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <203    | ug/kg  | 203  | 203  | 1  |          | 04/03/20 21:27 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <406    | ug/kg  | 406  | 406  | 1  |          | 04/03/20 21:27 | 60-29-7    |      |
| Diisopropyl ether              | <507    | ug/kg  | 507  | 507  | 1  |          | 04/03/20 21:27 | 108-20-3   | N2   |
| Ethylbenzene                   | <101    | ug/kg  | 101  | 101  | 1  |          | 04/03/20 21:27 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <507    | ug/kg  | 507  | 507  | 1  |          | 04/03/20 21:27 | 637-92-3   | N2   |
| Hexachloroethane               | <608    | ug/kg  | 608  | 608  | 1  |          | 04/03/20 21:27 | 67-72-1    | N2   |
| 2-Hexanone                     | <5070   | ug/kg  | 5070 | 5070 | 1  |          | 04/03/20 21:27 | 591-78-6   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-114 (8-9)**      **Lab ID: 50253160021**      Collected: 03/24/20 11:10      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Iodomethane                             | <203    | ug/kg | 2030   | 203  | 1  |          | 04/03/20 21:27 | 74-88-4     |      |
| Isopropylbenzene (Cumene)               | <507    | ug/kg | 507    | 507  | 1  |          | 04/03/20 21:27 | 98-82-8     |      |
| p-Isopropyltoluene                      | <50.7   | ug/kg | 101    | 50.7 | 1  |          | 04/03/20 21:27 | 99-87-6     |      |
| Methylene Chloride                      | <203    | ug/kg | 203    | 203  | 1  |          | 04/03/20 21:27 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <669    | ug/kg | 669    | 669  | 1  |          | 04/03/20 21:27 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <5070   | ug/kg | 5070   | 5070 | 1  |          | 04/03/20 21:27 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <507    | ug/kg | 507    | 507  | 1  |          | 04/03/20 21:27 | 1634-04-4   |      |
| Naphthalene                             | <669    | ug/kg | 669    | 669  | 1  |          | 04/03/20 21:27 | 91-20-3     |      |
| n-Propylbenzene                         | <203    | ug/kg | 203    | 203  | 1  |          | 04/03/20 21:27 | 103-65-1    |      |
| Styrene                                 | <101    | ug/kg | 101    | 101  | 1  |          | 04/03/20 21:27 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <203    | ug/kg | 203    | 203  | 1  |          | 04/03/20 21:27 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <101    | ug/kg | 101    | 101  | 1  |          | 04/03/20 21:27 | 79-34-5     |      |
| Tetrachloroethene                       | <101    | ug/kg | 101    | 101  | 1  |          | 04/03/20 21:27 | 127-18-4    |      |
| Tetrahydrofuran                         | <2030   | ug/kg | 2030   | 2030 | 1  |          | 04/03/20 21:27 | 109-99-9    | N2   |
| Toluene                                 | <203    | ug/kg | 203    | 203  | 1  |          | 04/03/20 21:27 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <507    | ug/kg | 507    | 507  | 1  |          | 04/03/20 21:27 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <507    | ug/kg | 507    | 507  | 1  |          | 04/03/20 21:27 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <101    | ug/kg | 101    | 101  | 1  |          | 04/03/20 21:27 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <101    | ug/kg | 101    | 101  | 1  |          | 04/03/20 21:27 | 79-00-5     |      |
| Trichloroethene                         | <101    | ug/kg | 101    | 101  | 1  |          | 04/03/20 21:27 | 79-01-6     |      |
| Trichlorofluoromethane                  | <203    | ug/kg | 203    | 203  | 1  |          | 04/03/20 21:27 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <203    | ug/kg | 203    | 203  | 1  |          | 04/03/20 21:27 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <507    | ug/kg | 507    | 507  | 1  |          | 04/03/20 21:27 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <203    | ug/kg | 203    | 203  | 1  |          | 04/03/20 21:27 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <203    | ug/kg | 203    | 203  | 1  |          | 04/03/20 21:27 | 108-67-8    |      |
| Vinyl chloride                          | <81.1   | ug/kg | 81.1   | 81.1 | 1  |          | 04/03/20 21:27 | 75-01-4     |      |
| m&p-Xylene                              | <50.7   | ug/kg | 101    | 50.7 | 1  |          | 04/03/20 21:27 | 179601-23-1 |      |
| o-Xylene                                | <50.7   | ug/kg | 101    | 50.7 | 1  |          | 04/03/20 21:27 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 112     | %     | 62-137 |      | 1  |          | 04/03/20 21:27 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 116     | %     | 64-139 |      | 1  |          | 04/03/20 21:27 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 111     | %     | 60-142 |      | 1  |          | 04/03/20 21:27 | 460-00-4    |      |

**Percent Moisture**

Analytical Method: SM 2540G  
Pace Analytical Services - Indianapolis

Percent Moisture      **15.0**      %      0.10      0.10      1      04/01/20 09:03

**7196 Chromium, Hexavalent**

Analytical Method: EPA 7196A      Preparation Method: EPA 3060A  
Pace Analytical Services - Indianapolis

Chromium, Hexavalent      <2.3      mg/kg      2.3      2.3      1      04/17/20 09:08      04/18/20 10:04      18540-29-9

**Trivalent Chromium Calculation**

Analytical Method: Trivalent Chromium Calculation  
Pace Analytical Services - Indianapolis

Chromium, Trivalent      **16.3**      mg/kg      1.0      1      04/23/20 07:38      16065-83-1

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-115 (7-8)**      **Lab ID: 50253160022**      Collected: 03/24/20 12:20      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                      |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                           |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| n-Butanol  | <5440   | ug/kg | 5440   | 5440  | 1  |                | 03/30/20 23:45 | 71-36-3   |      |
| Ethanol  | <3090   | ug/kg | 3090   | 3090  | 1  |                | 03/30/20 23:45 | 64-17-5   | B0   |
| Methanol   | 13400   | ug/kg | 5440   | 5440  | 1  |                | 03/30/20 23:45 | 67-56-1   | B0   |
| <b>6010 MET ICP</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050        |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Arsenic  | 24600   | ug/kg | 2340   | 2340  | 1  | 03/31/20 06:15 | 04/05/20 14:30 | 7440-38-2 |      |
| Barium   | 1950000 | ug/kg | 5860   | 5860  | 5  | 03/31/20 06:15 | 04/05/20 14:43 | 7440-39-3 |      |
| Chromium   | 179000  | ug/kg | 2340   | 2340  | 1  | 03/31/20 06:15 | 04/05/20 14:30 | 7440-47-3 |      |
| Lead   | 895000  | ug/kg | 11700  | 11700 | 1  | 03/31/20 06:15 | 04/05/20 14:30 | 7439-92-1 |      |
| <b>6020 MET ICPMS</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B       |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Cadmium  | 77000   | ug/kg | 1220   | 1220  | 5  | 03/30/20 10:20 | 03/31/20 09:09 | 7440-43-9 |      |
| Selenium   | <1220   | ug/kg | 1220   | 1220  | 5  | 03/30/20 10:20 | 03/31/20 09:09 | 7782-49-2 | D3   |
| Silver   | 1390    | ug/kg | 122    | 122   | 1  | 03/30/20 10:20 | 03/31/20 12:40 | 7440-22-4 |      |
| <b>7471 Mercury</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7471      Preparation Method: EPA 7471        |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Mercury  | 252     | ug/kg | 122    | 68.3  | 1  | 04/03/20 12:47 | 04/06/20 09:49 | 7439-97-6 |      |
| <b>8270 PAH Soil</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546 |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Acenaphthene   | <406    | ug/kg | 406    | 406   | 1  | 04/07/20 12:40 | 04/07/20 14:34 | 83-32-9   |      |
| Acenaphthylene   | <406    | ug/kg | 406    | 406   | 1  | 04/07/20 12:40 | 04/07/20 14:34 | 208-96-8  |      |
| Anthracene   | <406    | ug/kg | 406    | 406   | 1  | 04/07/20 12:40 | 04/07/20 14:34 | 120-12-7  |      |
| Benzo(a)anthracene   | <406    | ug/kg | 406    | 406   | 1  | 04/07/20 12:40 | 04/07/20 14:34 | 56-55-3   |      |
| Benzo(a)pyrene   | <406    | ug/kg | 406    | 406   | 1  | 04/07/20 12:40 | 04/07/20 14:34 | 50-32-8   |      |
| Benzo(b)fluoranthene   | <406    | ug/kg | 406    | 406   | 1  | 04/07/20 12:40 | 04/07/20 14:34 | 205-99-2  |      |
| Benzo(g,h,i)perylene   | <406    | ug/kg | 406    | 406   | 1  | 04/07/20 12:40 | 04/07/20 14:34 | 191-24-2  |      |
| Benzo(k)fluoranthene   | <406    | ug/kg | 406    | 406   | 1  | 04/07/20 12:40 | 04/07/20 14:34 | 207-08-9  |      |
| Chrysene   | <406    | ug/kg | 406    | 406   | 1  | 04/07/20 12:40 | 04/07/20 14:34 | 218-01-9  |      |
| Dibenz(a,h)anthracene  | <406    | ug/kg | 406    | 406   | 1  | 04/07/20 12:40 | 04/07/20 14:34 | 53-70-3   |      |
| Fluoranthene   | <406    | ug/kg | 406    | 406   | 1  | 04/07/20 12:40 | 04/07/20 14:34 | 206-44-0  |      |
| Fluorene   | <406    | ug/kg | 406    | 406   | 1  | 04/07/20 12:40 | 04/07/20 14:34 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | <406    | ug/kg | 406    | 406   | 1  | 04/07/20 12:40 | 04/07/20 14:34 | 193-39-5  |      |
| 2-Methylnaphthalene  | <406    | ug/kg | 406    | 406   | 1  | 04/07/20 12:40 | 04/07/20 14:34 | 91-57-6   |      |
| Naphthalene  | <406    | ug/kg | 406    | 406   | 1  | 04/07/20 12:40 | 04/07/20 14:34 | 91-20-3   |      |
| Phenanthrene   | <406    | ug/kg | 406    | 406   | 1  | 04/07/20 12:40 | 04/07/20 14:34 | 85-01-8   |      |
| Pyrene   | <406    | ug/kg | 406    | 406   | 1  | 04/07/20 12:40 | 04/07/20 14:34 | 129-00-0  |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)   | 63      | %     | 37-111 |       | 1  | 04/07/20 12:40 | 04/07/20 14:34 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 68      | %     | 29-124 |       | 1  | 04/07/20 12:40 | 04/07/20 14:34 | 1718-51-0 |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-115 (7-8)**      **Lab ID: 50253160022**      Collected: 03/24/20 12:20      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Acetone                        | <1490   | ug/kg  | 1490 | 1490 | 1  |          | 04/03/20 22:00 | 67-64-1    |      |
| Acrylonitrile                  | <149    | ug/kg  | 149  | 149  | 1  |          | 04/03/20 22:00 | 107-13-1   |      |
| tert-Amyl methyl ether         | <372    | ug/kg  | 372  | 372  | 1  |          | 04/03/20 22:00 | 994-05-8   | N2   |
| Benzene                        | <74.4   | ug/kg  | 74.4 | 74.4 | 1  |          | 04/03/20 22:00 | 71-43-2    |      |
| Bromobenzene                   | <149    | ug/kg  | 149  | 149  | 1  |          | 04/03/20 22:00 | 108-86-1   |      |
| Bromochloromethane             | <37.2   | ug/kg  | 74.4 | 37.2 | 1  |          | 04/03/20 22:00 | 74-97-5    |      |
| Bromodichloromethane           | <149    | ug/kg  | 149  | 149  | 1  |          | 04/03/20 22:00 | 75-27-4    |      |
| Bromoform                      | <149    | ug/kg  | 149  | 149  | 1  |          | 04/03/20 22:00 | 75-25-2    |      |
| Bromomethane                   | <297    | ug/kg  | 297  | 297  | 1  |          | 04/03/20 22:00 | 74-83-9    | L1   |
| 2-Butanone (MEK)               | <1120   | ug/kg  | 1120 | 1120 | 1  |          | 04/03/20 22:00 | 78-93-3    |      |
| tert-Butyl Alcohol             | <3720   | ug/kg  | 3720 | 3720 | 1  |          | 04/03/20 22:00 | 75-65-0    |      |
| n-Butylbenzene                 | <74.4   | ug/kg  | 74.4 | 74.4 | 1  |          | 04/03/20 22:00 | 104-51-8   |      |
| sec-Butylbenzene               | <74.4   | ug/kg  | 74.4 | 74.4 | 1  |          | 04/03/20 22:00 | 135-98-8   |      |
| tert-Butylbenzene              | <74.4   | ug/kg  | 74.4 | 74.4 | 1  |          | 04/03/20 22:00 | 98-06-6    |      |
| Carbon disulfide               | <372    | ug/kg  | 372  | 372  | 1  |          | 04/03/20 22:00 | 75-15-0    |      |
| Carbon tetrachloride           | <74.4   | ug/kg  | 74.4 | 74.4 | 1  |          | 04/03/20 22:00 | 56-23-5    |      |
| Chlorobenzene                  | <74.4   | ug/kg  | 74.4 | 74.4 | 1  |          | 04/03/20 22:00 | 108-90-7   |      |
| Chloroethane                   | <372    | ug/kg  | 372  | 372  | 1  |          | 04/03/20 22:00 | 75-00-3    |      |
| Chloroform                     | <74.4   | ug/kg  | 74.4 | 74.4 | 1  |          | 04/03/20 22:00 | 67-66-3    |      |
| Chloromethane                  | <372    | ug/kg  | 372  | 372  | 1  |          | 04/03/20 22:00 | 74-87-3    |      |
| Cyclohexane                    | <744    | ug/kg  | 744  | 744  | 1  |          | 04/03/20 22:00 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <74.4   | ug/kg  | 74.4 | 74.4 | 1  |          | 04/03/20 22:00 | 96-12-8    |      |
| Dibromochloromethane           | <149    | ug/kg  | 149  | 149  | 1  |          | 04/03/20 22:00 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <74.4   | ug/kg  | 74.4 | 74.4 | 1  |          | 04/03/20 22:00 | 106-93-4   |      |
| Dibromomethane                 | <372    | ug/kg  | 372  | 372  | 1  |          | 04/03/20 22:00 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <149    | ug/kg  | 149  | 149  | 1  |          | 04/03/20 22:00 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <149    | ug/kg  | 149  | 149  | 1  |          | 04/03/20 22:00 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <149    | ug/kg  | 149  | 149  | 1  |          | 04/03/20 22:00 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <149    | ug/kg  | 1490 | 149  | 1  |          | 04/03/20 22:00 | 110-57-6   |      |
| Dichlorodifluoromethane        | <372    | ug/kg  | 372  | 372  | 1  |          | 04/03/20 22:00 | 75-71-8    |      |
| 1,1-Dichloroethane             | <74.4   | ug/kg  | 74.4 | 74.4 | 1  |          | 04/03/20 22:00 | 75-34-3    |      |
| 1,2-Dichloroethane             | <74.4   | ug/kg  | 74.4 | 74.4 | 1  |          | 04/03/20 22:00 | 107-06-2   |      |
| 1,1-Dichloroethene             | <74.4   | ug/kg  | 74.4 | 74.4 | 1  |          | 04/03/20 22:00 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <74.4   | ug/kg  | 74.4 | 74.4 | 1  |          | 04/03/20 22:00 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <74.4   | ug/kg  | 74.4 | 74.4 | 1  |          | 04/03/20 22:00 | 156-60-5   |      |
| 1,2-Dichloropropane            | <74.4   | ug/kg  | 74.4 | 74.4 | 1  |          | 04/03/20 22:00 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <149    | ug/kg  | 149  | 149  | 1  |          | 04/03/20 22:00 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <149    | ug/kg  | 149  | 149  | 1  |          | 04/03/20 22:00 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <297    | ug/kg  | 297  | 297  | 1  |          | 04/03/20 22:00 | 60-29-7    |      |
| Diisopropyl ether              | <372    | ug/kg  | 372  | 372  | 1  |          | 04/03/20 22:00 | 108-20-3   | N2   |
| Ethylbenzene                   | <74.4   | ug/kg  | 74.4 | 74.4 | 1  |          | 04/03/20 22:00 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <372    | ug/kg  | 372  | 372  | 1  |          | 04/03/20 22:00 | 637-92-3   | N2   |
| Hexachloroethane               | <446    | ug/kg  | 446  | 446  | 1  |          | 04/03/20 22:00 | 67-72-1    | N2   |
| 2-Hexanone                     | <3720   | ug/kg  | 3720 | 3720 | 1  |          | 04/03/20 22:00 | 591-78-6   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-115 (7-8') Lab ID: 50253160022 Collected: 03/24/20 12:20 Received: 03/27/20 08:10 Matrix: Solid**

**Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.**

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Iodomethane                             | <149    | ug/kg | 1490   | 149  | 1  |          | 04/03/20 22:00 | 74-88-4     |      |
| Isopropylbenzene (Cumene)               | <372    | ug/kg | 372    | 372  | 1  |          | 04/03/20 22:00 | 98-82-8     |      |
| p-Isopropyltoluene                      | <37.2   | ug/kg | 74.4   | 37.2 | 1  |          | 04/03/20 22:00 | 99-87-6     |      |
| Methylene Chloride                      | <149    | ug/kg | 149    | 149  | 1  |          | 04/03/20 22:00 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <491    | ug/kg | 491    | 491  | 1  |          | 04/03/20 22:00 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <3720   | ug/kg | 3720   | 3720 | 1  |          | 04/03/20 22:00 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <372    | ug/kg | 372    | 372  | 1  |          | 04/03/20 22:00 | 1634-04-4   |      |
| Naphthalene                             | <491    | ug/kg | 491    | 491  | 1  |          | 04/03/20 22:00 | 91-20-3     |      |
| n-Propylbenzene                         | <149    | ug/kg | 149    | 149  | 1  |          | 04/03/20 22:00 | 103-65-1    |      |
| Styrene                                 | <74.4   | ug/kg | 74.4   | 74.4 | 1  |          | 04/03/20 22:00 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <149    | ug/kg | 149    | 149  | 1  |          | 04/03/20 22:00 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <74.4   | ug/kg | 74.4   | 74.4 | 1  |          | 04/03/20 22:00 | 79-34-5     |      |
| Tetrachloroethene                       | <74.4   | ug/kg | 74.4   | 74.4 | 1  |          | 04/03/20 22:00 | 127-18-4    |      |
| Tetrahydrofuran                         | <1490   | ug/kg | 1490   | 1490 | 1  |          | 04/03/20 22:00 | 109-99-9    | N2   |
| Toluene                                 | <149    | ug/kg | 149    | 149  | 1  |          | 04/03/20 22:00 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <372    | ug/kg | 372    | 372  | 1  |          | 04/03/20 22:00 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <372    | ug/kg | 372    | 372  | 1  |          | 04/03/20 22:00 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <74.4   | ug/kg | 74.4   | 74.4 | 1  |          | 04/03/20 22:00 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <74.4   | ug/kg | 74.4   | 74.4 | 1  |          | 04/03/20 22:00 | 79-00-5     |      |
| Trichloroethene                         | <74.4   | ug/kg | 74.4   | 74.4 | 1  |          | 04/03/20 22:00 | 79-01-6     |      |
| Trichlorofluoromethane                  | <149    | ug/kg | 149    | 149  | 1  |          | 04/03/20 22:00 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <149    | ug/kg | 149    | 149  | 1  |          | 04/03/20 22:00 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <372    | ug/kg | 372    | 372  | 1  |          | 04/03/20 22:00 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <149    | ug/kg | 149    | 149  | 1  |          | 04/03/20 22:00 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <149    | ug/kg | 149    | 149  | 1  |          | 04/03/20 22:00 | 108-67-8    |      |
| Vinyl chloride                          | <59.5   | ug/kg | 59.5   | 59.5 | 1  |          | 04/03/20 22:00 | 75-01-4     |      |
| m&p-Xylene                              | <37.2   | ug/kg | 74.4   | 37.2 | 1  |          | 04/03/20 22:00 | 179601-23-1 |      |
| o-Xylene                                | <37.2   | ug/kg | 74.4   | 37.2 | 1  |          | 04/03/20 22:00 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 118     | %     | 62-137 |      | 1  |          | 04/03/20 22:00 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 125     | %     | 64-139 |      | 1  |          | 04/03/20 22:00 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 122     | %     | 60-142 |      | 1  |          | 04/03/20 22:00 | 460-00-4    |      |

**Percent Moisture**

Analytical Method: SM 2540G  
Pace Analytical Services - Indianapolis

Percent Moisture **19.1** % 0.10 0.10 1 04/01/20 09:03

**7196 Chromium, Hexavalent**

Analytical Method: EPA 7196A Preparation Method: EPA 3060A  
Pace Analytical Services - Indianapolis

Chromium, Hexavalent **<2.5** mg/kg 2.5 2.5 1 04/17/20 09:08 04/18/20 10:04 18540-29-9

**Trivalent Chromium Calculation**

Analytical Method: Trivalent Chromium Calculation  
Pace Analytical Services - Indianapolis

Chromium, Trivalent **179** mg/kg 1.0 1 04/23/20 07:38 16065-83-1

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: Dup-1**      **Lab ID: 50253160023**      Collected: 03/23/20 12:00      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                      |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                           |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |      |    |                |                |           |      |
| n-Butanol  | <4870   | ug/kg | 4870   | 4870 | 1  |                | 03/30/20 23:54 | 71-36-3   |      |
| Ethanol  | <2770   | ug/kg | 2770   | 2770 | 1  |                | 03/30/20 23:54 | 64-17-5   | B0   |
| Methanol   | 10800   | ug/kg | 4870   | 4870 | 1  |                | 03/30/20 23:54 | 67-56-1   | B0   |
| <b>6010 MET ICP</b>  |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050        |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |      |    |                |                |           |      |
| Arsenic  | <1870   | ug/kg | 1870   | 1870 | 1  | 03/31/20 06:15 | 04/05/20 14:33 | 7440-38-2 |      |
| Barium   | 17900   | ug/kg | 933    | 933  | 1  | 03/31/20 06:15 | 04/05/20 14:33 | 7440-39-3 |      |
| Chromium   | 5980    | ug/kg | 1870   | 1870 | 1  | 03/31/20 06:15 | 04/05/20 14:33 | 7440-47-3 |      |
| Lead   | <9330   | ug/kg | 9330   | 9330 | 1  | 03/31/20 06:15 | 04/05/20 14:33 | 7439-92-1 |      |
| <b>6020 MET ICPMS</b>  |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B       |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |      |    |                |                |           |      |
| Cadmium  | <216    | ug/kg | 216    | 216  | 1  | 03/30/20 10:20 | 03/31/20 12:44 | 7440-43-9 |      |
| Selenium   | <1080   | ug/kg | 1080   | 1080 | 5  | 03/30/20 10:20 | 03/31/20 09:13 | 7782-49-2 | D3   |
| Silver   | <108    | ug/kg | 108    | 108  | 1  | 03/30/20 10:20 | 03/31/20 12:44 | 7440-22-4 |      |
| <b>7471 Mercury</b>  |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 7471      Preparation Method: EPA 7471        |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |      |    |                |                |           |      |
| Mercury  | <63.4   | ug/kg | 113    | 63.4 | 1  | 04/03/20 12:47 | 04/06/20 09:51 | 7439-97-6 |      |
| <b>8270 PAH Soil</b>   |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |      |    |                |                |           |      |
| Acenaphthene   | <361    | ug/kg | 361    | 361  | 1  | 04/03/20 09:30 | 04/06/20 09:57 | 83-32-9   |      |
| Acenaphthylene   | <361    | ug/kg | 361    | 361  | 1  | 04/03/20 09:30 | 04/06/20 09:57 | 208-96-8  |      |
| Anthracene   | <361    | ug/kg | 361    | 361  | 1  | 04/03/20 09:30 | 04/06/20 09:57 | 120-12-7  |      |
| Benzo(a)anthracene   | <361    | ug/kg | 361    | 361  | 1  | 04/03/20 09:30 | 04/06/20 09:57 | 56-55-3   |      |
| Benzo(a)pyrene   | <361    | ug/kg | 361    | 361  | 1  | 04/03/20 09:30 | 04/06/20 09:57 | 50-32-8   |      |
| Benzo(b)fluoranthene   | <361    | ug/kg | 361    | 361  | 1  | 04/03/20 09:30 | 04/06/20 09:57 | 205-99-2  |      |
| Benzo(g,h,i)perylene   | <361    | ug/kg | 361    | 361  | 1  | 04/03/20 09:30 | 04/06/20 09:57 | 191-24-2  |      |
| Benzo(k)fluoranthene   | <361    | ug/kg | 361    | 361  | 1  | 04/03/20 09:30 | 04/06/20 09:57 | 207-08-9  |      |
| Chrysene   | <361    | ug/kg | 361    | 361  | 1  | 04/03/20 09:30 | 04/06/20 09:57 | 218-01-9  |      |
| Dibenz(a,h)anthracene  | <361    | ug/kg | 361    | 361  | 1  | 04/03/20 09:30 | 04/06/20 09:57 | 53-70-3   |      |
| Fluoranthene   | <361    | ug/kg | 361    | 361  | 1  | 04/03/20 09:30 | 04/06/20 09:57 | 206-44-0  |      |
| Fluorene   | <361    | ug/kg | 361    | 361  | 1  | 04/03/20 09:30 | 04/06/20 09:57 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | <361    | ug/kg | 361    | 361  | 1  | 04/03/20 09:30 | 04/06/20 09:57 | 193-39-5  |      |
| 2-Methylnaphthalene  | <361    | ug/kg | 361    | 361  | 1  | 04/03/20 09:30 | 04/06/20 09:57 | 91-57-6   |      |
| Naphthalene  | <361    | ug/kg | 361    | 361  | 1  | 04/03/20 09:30 | 04/06/20 09:57 | 91-20-3   |      |
| Phenanthrene   | <361    | ug/kg | 361    | 361  | 1  | 04/03/20 09:30 | 04/06/20 09:57 | 85-01-8   |      |
| Pyrene   | <361    | ug/kg | 361    | 361  | 1  | 04/03/20 09:30 | 04/06/20 09:57 | 129-00-0  |      |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |           |      |
| 2-Fluorobiphenyl (S)   | 62      | %     | 37-111 |      | 1  | 04/03/20 09:30 | 04/06/20 09:57 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 70      | %     | 29-124 |      | 1  | 04/03/20 09:30 | 04/06/20 09:57 | 1718-51-0 |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale

Pace Project No.: 50253160

Sample: Dup-1 Lab ID: 50253160023 Collected: 03/23/20 12:00 Received: 03/27/20 08:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Acetone                        | <1140   | ug/kg  | 1140 | 1140 | 1  |          | 04/03/20 22:33 | 67-64-1    |      |
| Acrylonitrile                  | <114    | ug/kg  | 114  | 114  | 1  |          | 04/03/20 22:33 | 107-13-1   |      |
| tert-Amyl methyl ether         | <284    | ug/kg  | 284  | 284  | 1  |          | 04/03/20 22:33 | 994-05-8   | N2   |
| Benzene                        | <56.8   | ug/kg  | 56.8 | 56.8 | 1  |          | 04/03/20 22:33 | 71-43-2    |      |
| Bromobenzene                   | <114    | ug/kg  | 114  | 114  | 1  |          | 04/03/20 22:33 | 108-86-1   |      |
| Bromochloromethane             | <28.4   | ug/kg  | 56.8 | 28.4 | 1  |          | 04/03/20 22:33 | 74-97-5    |      |
| Bromodichloromethane           | <114    | ug/kg  | 114  | 114  | 1  |          | 04/03/20 22:33 | 75-27-4    |      |
| Bromoform                      | <114    | ug/kg  | 114  | 114  | 1  |          | 04/03/20 22:33 | 75-25-2    |      |
| Bromomethane                   | <227    | ug/kg  | 227  | 227  | 1  |          | 04/03/20 22:33 | 74-83-9    | L1   |
| 2-Butanone (MEK)               | <852    | ug/kg  | 852  | 852  | 1  |          | 04/03/20 22:33 | 78-93-3    |      |
| tert-Butyl Alcohol             | <2840   | ug/kg  | 2840 | 2840 | 1  |          | 04/03/20 22:33 | 75-65-0    |      |
| n-Butylbenzene                 | <56.8   | ug/kg  | 56.8 | 56.8 | 1  |          | 04/03/20 22:33 | 104-51-8   |      |
| sec-Butylbenzene               | <56.8   | ug/kg  | 56.8 | 56.8 | 1  |          | 04/03/20 22:33 | 135-98-8   |      |
| tert-Butylbenzene              | <56.8   | ug/kg  | 56.8 | 56.8 | 1  |          | 04/03/20 22:33 | 98-06-6    |      |
| Carbon disulfide               | <284    | ug/kg  | 284  | 284  | 1  |          | 04/03/20 22:33 | 75-15-0    |      |
| Carbon tetrachloride           | <56.8   | ug/kg  | 56.8 | 56.8 | 1  |          | 04/03/20 22:33 | 56-23-5    |      |
| Chlorobenzene                  | <56.8   | ug/kg  | 56.8 | 56.8 | 1  |          | 04/03/20 22:33 | 108-90-7   |      |
| Chloroethane                   | <284    | ug/kg  | 284  | 284  | 1  |          | 04/03/20 22:33 | 75-00-3    |      |
| Chloroform                     | <56.8   | ug/kg  | 56.8 | 56.8 | 1  |          | 04/03/20 22:33 | 67-66-3    |      |
| Chloromethane                  | <284    | ug/kg  | 284  | 284  | 1  |          | 04/03/20 22:33 | 74-87-3    |      |
| Cyclohexane                    | <568    | ug/kg  | 568  | 568  | 1  |          | 04/03/20 22:33 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <56.8   | ug/kg  | 56.8 | 56.8 | 1  |          | 04/03/20 22:33 | 96-12-8    |      |
| Dibromochloromethane           | <114    | ug/kg  | 114  | 114  | 1  |          | 04/03/20 22:33 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <56.8   | ug/kg  | 56.8 | 56.8 | 1  |          | 04/03/20 22:33 | 106-93-4   |      |
| Dibromomethane                 | <284    | ug/kg  | 284  | 284  | 1  |          | 04/03/20 22:33 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <114    | ug/kg  | 114  | 114  | 1  |          | 04/03/20 22:33 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <114    | ug/kg  | 114  | 114  | 1  |          | 04/03/20 22:33 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <114    | ug/kg  | 114  | 114  | 1  |          | 04/03/20 22:33 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <114    | ug/kg  | 1140 | 114  | 1  |          | 04/03/20 22:33 | 110-57-6   |      |
| Dichlorodifluoromethane        | <284    | ug/kg  | 284  | 284  | 1  |          | 04/03/20 22:33 | 75-71-8    |      |
| 1,1-Dichloroethane             | <56.8   | ug/kg  | 56.8 | 56.8 | 1  |          | 04/03/20 22:33 | 75-34-3    |      |
| 1,2-Dichloroethane             | <56.8   | ug/kg  | 56.8 | 56.8 | 1  |          | 04/03/20 22:33 | 107-06-2   |      |
| 1,1-Dichloroethene             | <56.8   | ug/kg  | 56.8 | 56.8 | 1  |          | 04/03/20 22:33 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <56.8   | ug/kg  | 56.8 | 56.8 | 1  |          | 04/03/20 22:33 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <56.8   | ug/kg  | 56.8 | 56.8 | 1  |          | 04/03/20 22:33 | 156-60-5   |      |
| 1,2-Dichloropropane            | <56.8   | ug/kg  | 56.8 | 56.8 | 1  |          | 04/03/20 22:33 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <114    | ug/kg  | 114  | 114  | 1  |          | 04/03/20 22:33 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <114    | ug/kg  | 114  | 114  | 1  |          | 04/03/20 22:33 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <227    | ug/kg  | 227  | 227  | 1  |          | 04/03/20 22:33 | 60-29-7    |      |
| Diisopropyl ether              | <284    | ug/kg  | 284  | 284  | 1  |          | 04/03/20 22:33 | 108-20-3   | N2   |
| Ethylbenzene                   | <56.8   | ug/kg  | 56.8 | 56.8 | 1  |          | 04/03/20 22:33 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <284    | ug/kg  | 284  | 284  | 1  |          | 04/03/20 22:33 | 637-92-3   | N2   |
| Hexachloroethane               | <341    | ug/kg  | 341  | 341  | 1  |          | 04/03/20 22:33 | 67-72-1    | N2   |
| 2-Hexanone                     | <2840   | ug/kg  | 2840 | 2840 | 1  |          | 04/03/20 22:33 | 591-78-6   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: Dup-1**      **Lab ID: 50253160023**      Collected: 03/23/20 12:00      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Iodomethane                             | <114    | ug/kg | 1140   | 114  | 1  |          | 04/03/20 22:33 | 74-88-4     |      |
| Isopropylbenzene (Cumene)               | <284    | ug/kg | 284    | 284  | 1  |          | 04/03/20 22:33 | 98-82-8     |      |
| p-Isopropyltoluene                      | <28.4   | ug/kg | 56.8   | 28.4 | 1  |          | 04/03/20 22:33 | 99-87-6     |      |
| Methylene Chloride                      | <114    | ug/kg | 114    | 114  | 1  |          | 04/03/20 22:33 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <375    | ug/kg | 375    | 375  | 1  |          | 04/03/20 22:33 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <2840   | ug/kg | 2840   | 2840 | 1  |          | 04/03/20 22:33 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <284    | ug/kg | 284    | 284  | 1  |          | 04/03/20 22:33 | 1634-04-4   |      |
| Naphthalene                             | <375    | ug/kg | 375    | 375  | 1  |          | 04/03/20 22:33 | 91-20-3     |      |
| n-Propylbenzene                         | <114    | ug/kg | 114    | 114  | 1  |          | 04/03/20 22:33 | 103-65-1    |      |
| Styrene                                 | <56.8   | ug/kg | 56.8   | 56.8 | 1  |          | 04/03/20 22:33 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <114    | ug/kg | 114    | 114  | 1  |          | 04/03/20 22:33 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <56.8   | ug/kg | 56.8   | 56.8 | 1  |          | 04/03/20 22:33 | 79-34-5     |      |
| Tetrachloroethene                       | <56.8   | ug/kg | 56.8   | 56.8 | 1  |          | 04/03/20 22:33 | 127-18-4    |      |
| Tetrahydrofuran                         | <1140   | ug/kg | 1140   | 1140 | 1  |          | 04/03/20 22:33 | 109-99-9    | N2   |
| Toluene                                 | <114    | ug/kg | 114    | 114  | 1  |          | 04/03/20 22:33 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <284    | ug/kg | 284    | 284  | 1  |          | 04/03/20 22:33 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <284    | ug/kg | 284    | 284  | 1  |          | 04/03/20 22:33 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <56.8   | ug/kg | 56.8   | 56.8 | 1  |          | 04/03/20 22:33 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <56.8   | ug/kg | 56.8   | 56.8 | 1  |          | 04/03/20 22:33 | 79-00-5     |      |
| Trichloroethene                         | <56.8   | ug/kg | 56.8   | 56.8 | 1  |          | 04/03/20 22:33 | 79-01-6     |      |
| Trichlorofluoromethane                  | <114    | ug/kg | 114    | 114  | 1  |          | 04/03/20 22:33 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <114    | ug/kg | 114    | 114  | 1  |          | 04/03/20 22:33 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <284    | ug/kg | 284    | 284  | 1  |          | 04/03/20 22:33 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <114    | ug/kg | 114    | 114  | 1  |          | 04/03/20 22:33 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <114    | ug/kg | 114    | 114  | 1  |          | 04/03/20 22:33 | 108-67-8    |      |
| Vinyl chloride                          | <45.5   | ug/kg | 45.5   | 45.5 | 1  |          | 04/03/20 22:33 | 75-01-4     |      |
| m&p-Xylene                              | <28.4   | ug/kg | 56.8   | 28.4 | 1  |          | 04/03/20 22:33 | 179601-23-1 |      |
| o-Xylene                                | <28.4   | ug/kg | 56.8   | 28.4 | 1  |          | 04/03/20 22:33 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 101     | %     | 62-137 |      | 1  |          | 04/03/20 22:33 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 107     | %     | 64-139 |      | 1  |          | 04/03/20 22:33 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 103     | %     | 60-142 |      | 1  |          | 04/03/20 22:33 | 460-00-4    |      |

**Percent Moisture**

Analytical Method: SM 2540G  
Pace Analytical Services - Indianapolis

|                  |            |   |      |      |   |  |                |  |  |
|------------------|------------|---|------|------|---|--|----------------|--|--|
| Percent Moisture | <b>9.6</b> | % | 0.10 | 0.10 | 1 |  | 04/01/20 09:03 |  |  |
|------------------|------------|---|------|------|---|--|----------------|--|--|

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: Dup-2**      **Lab ID: 50253160024**      Collected: 03/24/20 11:15      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                      |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                           |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| n-Butanol  | <5030   | ug/kg | 5030   | 5030  | 1  |                | 03/31/20 00:03 | 71-36-3   |      |
| Ethanol  | <2860   | ug/kg | 2860   | 2860  | 1  |                | 03/31/20 00:03 | 64-17-5   | B0   |
| Methanol   | 39000   | ug/kg | 5030   | 5030  | 1  |                | 03/31/20 00:03 | 67-56-1   | B0   |
| <b>6010 MET ICP</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050        |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Arsenic  | 9020    | ug/kg | 2100   | 2100  | 1  | 03/31/20 06:15 | 04/05/20 14:35 | 7440-38-2 |      |
| Barium   | 182000  | ug/kg | 1050   | 1050  | 1  | 03/31/20 06:15 | 04/05/20 14:35 | 7440-39-3 |      |
| Chromium   | 16400   | ug/kg | 2100   | 2100  | 1  | 03/31/20 06:15 | 04/05/20 14:35 | 7440-47-3 |      |
| Lead   | 38300   | ug/kg | 10500  | 10500 | 1  | 03/31/20 06:15 | 04/05/20 14:35 | 7439-92-1 |      |
| <b>6020 MET ICPMS</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B       |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Cadmium  | 1700    | ug/kg | 222    | 222   | 1  | 03/30/20 10:20 | 03/31/20 12:53 | 7440-43-9 |      |
| Selenium   | <2220   | ug/kg | 2220   | 2220  | 10 | 03/30/20 10:20 | 04/02/20 03:57 | 7782-49-2 | D3   |
| Silver   | 135     | ug/kg | 111    | 111   | 1  | 03/30/20 10:20 | 03/31/20 12:53 | 7440-22-4 |      |
| <b>7471 Mercury</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7471      Preparation Method: EPA 7471        |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Mercury  | 229     | ug/kg | 109    | 61.0  | 1  | 04/03/20 12:47 | 04/06/20 09:54 | 7439-97-6 |      |
| <b>8270 PAH Soil</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546 |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Acenaphthene   | <3720   | ug/kg | 3720   | 3720  | 10 | 04/03/20 09:30 | 04/06/20 10:14 | 83-32-9   |      |
| Acenaphthylene   | <3720   | ug/kg | 3720   | 3720  | 10 | 04/03/20 09:30 | 04/06/20 10:14 | 208-96-8  |      |
| Anthracene   | 10000   | ug/kg | 3720   | 3720  | 10 | 04/03/20 09:30 | 04/06/20 10:14 | 120-12-7  |      |
| Benzo(a)anthracene   | 14300   | ug/kg | 3720   | 3720  | 10 | 04/03/20 09:30 | 04/06/20 10:14 | 56-55-3   |      |
| Benzo(a)pyrene   | 13100   | ug/kg | 3720   | 3720  | 10 | 04/03/20 09:30 | 04/06/20 10:14 | 50-32-8   |      |
| Benzo(b)fluoranthene   | 15100   | ug/kg | 3720   | 3720  | 10 | 04/03/20 09:30 | 04/06/20 10:14 | 205-99-2  |      |
| Benzo(g,h,i)perylene   | 8220    | ug/kg | 3720   | 3720  | 10 | 04/03/20 09:30 | 04/06/20 10:14 | 191-24-2  |      |
| Benzo(k)fluoranthene   | 8720    | ug/kg | 3720   | 3720  | 10 | 04/03/20 09:30 | 04/06/20 10:14 | 207-08-9  |      |
| Chrysene   | 12500   | ug/kg | 3720   | 3720  | 10 | 04/03/20 09:30 | 04/06/20 10:14 | 218-01-9  |      |
| Dibenz(a,h)anthracene  | <3720   | ug/kg | 3720   | 3720  | 10 | 04/03/20 09:30 | 04/06/20 10:14 | 53-70-3   |      |
| Fluoranthene   | 36600   | ug/kg | 3720   | 3720  | 10 | 04/03/20 09:30 | 04/06/20 10:14 | 206-44-0  |      |
| Fluorene   | <3720   | ug/kg | 3720   | 3720  | 10 | 04/03/20 09:30 | 04/06/20 10:14 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | 7320    | ug/kg | 3720   | 3720  | 10 | 04/03/20 09:30 | 04/06/20 10:14 | 193-39-5  |      |
| 2-Methylnaphthalene  | <3720   | ug/kg | 3720   | 3720  | 10 | 04/03/20 09:30 | 04/06/20 10:14 | 91-57-6   |      |
| Naphthalene  | 4090    | ug/kg | 3720   | 3720  | 10 | 04/03/20 09:30 | 04/06/20 10:14 | 91-20-3   | ED   |
| Phenanthrene   | 31700   | ug/kg | 3720   | 3720  | 10 | 04/03/20 09:30 | 04/06/20 10:14 | 85-01-8   |      |
| Pyrene   | 27100   | ug/kg | 3720   | 3720  | 10 | 04/03/20 09:30 | 04/06/20 10:14 | 129-00-0  |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)   | 71      | %     | 37-111 |       | 10 | 04/03/20 09:30 | 04/06/20 10:14 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 89      | %     | 29-124 |       | 10 | 04/03/20 09:30 | 04/06/20 10:14 | 1718-51-0 |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: Dup-2**      **Lab ID: 50253160024**      Collected: 03/24/20 11:15      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Acetone                        | <1370   | ug/kg  | 1370 | 1370 | 1  |          | 04/03/20 23:06 | 67-64-1    |      |
| Acrylonitrile                  | <137    | ug/kg  | 137  | 137  | 1  |          | 04/03/20 23:06 | 107-13-1   |      |
| tert-Amyl methyl ether         | <342    | ug/kg  | 342  | 342  | 1  |          | 04/03/20 23:06 | 994-05-8   | N2   |
| Benzene                        | <68.4   | ug/kg  | 68.4 | 68.4 | 1  |          | 04/03/20 23:06 | 71-43-2    |      |
| Bromobenzene                   | <137    | ug/kg  | 137  | 137  | 1  |          | 04/03/20 23:06 | 108-86-1   |      |
| Bromochloromethane             | <34.2   | ug/kg  | 68.4 | 34.2 | 1  |          | 04/03/20 23:06 | 74-97-5    |      |
| Bromodichloromethane           | <137    | ug/kg  | 137  | 137  | 1  |          | 04/03/20 23:06 | 75-27-4    |      |
| Bromoform                      | <137    | ug/kg  | 137  | 137  | 1  |          | 04/03/20 23:06 | 75-25-2    |      |
| Bromomethane                   | <274    | ug/kg  | 274  | 274  | 1  |          | 04/03/20 23:06 | 74-83-9    | L1   |
| 2-Butanone (MEK)               | <1030   | ug/kg  | 1030 | 1030 | 1  |          | 04/03/20 23:06 | 78-93-3    |      |
| tert-Butyl Alcohol             | <3420   | ug/kg  | 3420 | 3420 | 1  |          | 04/03/20 23:06 | 75-65-0    |      |
| n-Butylbenzene                 | <68.4   | ug/kg  | 68.4 | 68.4 | 1  |          | 04/03/20 23:06 | 104-51-8   |      |
| sec-Butylbenzene               | <68.4   | ug/kg  | 68.4 | 68.4 | 1  |          | 04/03/20 23:06 | 135-98-8   |      |
| tert-Butylbenzene              | <68.4   | ug/kg  | 68.4 | 68.4 | 1  |          | 04/03/20 23:06 | 98-06-6    |      |
| Carbon disulfide               | <342    | ug/kg  | 342  | 342  | 1  |          | 04/03/20 23:06 | 75-15-0    |      |
| Carbon tetrachloride           | <68.4   | ug/kg  | 68.4 | 68.4 | 1  |          | 04/03/20 23:06 | 56-23-5    |      |
| Chlorobenzene                  | <68.4   | ug/kg  | 68.4 | 68.4 | 1  |          | 04/03/20 23:06 | 108-90-7   |      |
| Chloroethane                   | <342    | ug/kg  | 342  | 342  | 1  |          | 04/03/20 23:06 | 75-00-3    |      |
| Chloroform                     | <68.4   | ug/kg  | 68.4 | 68.4 | 1  |          | 04/03/20 23:06 | 67-66-3    |      |
| Chloromethane                  | <342    | ug/kg  | 342  | 342  | 1  |          | 04/03/20 23:06 | 74-87-3    |      |
| Cyclohexane                    | <684    | ug/kg  | 684  | 684  | 1  |          | 04/03/20 23:06 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <68.4   | ug/kg  | 68.4 | 68.4 | 1  |          | 04/03/20 23:06 | 96-12-8    |      |
| Dibromochloromethane           | <137    | ug/kg  | 137  | 137  | 1  |          | 04/03/20 23:06 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <68.4   | ug/kg  | 68.4 | 68.4 | 1  |          | 04/03/20 23:06 | 106-93-4   |      |
| Dibromomethane                 | <342    | ug/kg  | 342  | 342  | 1  |          | 04/03/20 23:06 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <137    | ug/kg  | 137  | 137  | 1  |          | 04/03/20 23:06 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <137    | ug/kg  | 137  | 137  | 1  |          | 04/03/20 23:06 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <137    | ug/kg  | 137  | 137  | 1  |          | 04/03/20 23:06 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <137    | ug/kg  | 1370 | 137  | 1  |          | 04/03/20 23:06 | 110-57-6   |      |
| Dichlorodifluoromethane        | <342    | ug/kg  | 342  | 342  | 1  |          | 04/03/20 23:06 | 75-71-8    |      |
| 1,1-Dichloroethane             | <68.4   | ug/kg  | 68.4 | 68.4 | 1  |          | 04/03/20 23:06 | 75-34-3    |      |
| 1,2-Dichloroethane             | <68.4   | ug/kg  | 68.4 | 68.4 | 1  |          | 04/03/20 23:06 | 107-06-2   |      |
| 1,1-Dichloroethene             | <68.4   | ug/kg  | 68.4 | 68.4 | 1  |          | 04/03/20 23:06 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <68.4   | ug/kg  | 68.4 | 68.4 | 1  |          | 04/03/20 23:06 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <68.4   | ug/kg  | 68.4 | 68.4 | 1  |          | 04/03/20 23:06 | 156-60-5   |      |
| 1,2-Dichloropropane            | <68.4   | ug/kg  | 68.4 | 68.4 | 1  |          | 04/03/20 23:06 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <137    | ug/kg  | 137  | 137  | 1  |          | 04/03/20 23:06 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <137    | ug/kg  | 137  | 137  | 1  |          | 04/03/20 23:06 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <274    | ug/kg  | 274  | 274  | 1  |          | 04/03/20 23:06 | 60-29-7    |      |
| Diisopropyl ether              | <342    | ug/kg  | 342  | 342  | 1  |          | 04/03/20 23:06 | 108-20-3   | N2   |
| Ethylbenzene                   | <68.4   | ug/kg  | 68.4 | 68.4 | 1  |          | 04/03/20 23:06 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <342    | ug/kg  | 342  | 342  | 1  |          | 04/03/20 23:06 | 637-92-3   | N2   |
| Hexachloroethane               | <411    | ug/kg  | 411  | 411  | 1  |          | 04/03/20 23:06 | 67-72-1    | N2   |
| 2-Hexanone                     | <3420   | ug/kg  | 3420 | 3420 | 1  |          | 04/03/20 23:06 | 591-78-6   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: Dup-2**      **Lab ID: 50253160024**      Collected: 03/24/20 11:15      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Iodomethane                             | <137    | ug/kg | 1370   | 137  | 1  |          | 04/03/20 23:06 | 74-88-4     |      |
| Isopropylbenzene (Cumene)               | <342    | ug/kg | 342    | 342  | 1  |          | 04/03/20 23:06 | 98-82-8     |      |
| p-Isopropyltoluene                      | <34.2   | ug/kg | 68.4   | 34.2 | 1  |          | 04/03/20 23:06 | 99-87-6     |      |
| Methylene Chloride                      | <137    | ug/kg | 137    | 137  | 1  |          | 04/03/20 23:06 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <452    | ug/kg | 452    | 452  | 1  |          | 04/03/20 23:06 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <3420   | ug/kg | 3420   | 3420 | 1  |          | 04/03/20 23:06 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <342    | ug/kg | 342    | 342  | 1  |          | 04/03/20 23:06 | 1634-04-4   |      |
| Naphthalene                             | <452    | ug/kg | 452    | 452  | 1  |          | 04/03/20 23:06 | 91-20-3     |      |
| n-Propylbenzene                         | <137    | ug/kg | 137    | 137  | 1  |          | 04/03/20 23:06 | 103-65-1    |      |
| Styrene                                 | <68.4   | ug/kg | 68.4   | 68.4 | 1  |          | 04/03/20 23:06 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <137    | ug/kg | 137    | 137  | 1  |          | 04/03/20 23:06 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <68.4   | ug/kg | 68.4   | 68.4 | 1  |          | 04/03/20 23:06 | 79-34-5     |      |
| Tetrachloroethene                       | <68.4   | ug/kg | 68.4   | 68.4 | 1  |          | 04/03/20 23:06 | 127-18-4    |      |
| Tetrahydrofuran                         | <1370   | ug/kg | 1370   | 1370 | 1  |          | 04/03/20 23:06 | 109-99-9    | N2   |
| Toluene                                 | <137    | ug/kg | 137    | 137  | 1  |          | 04/03/20 23:06 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <342    | ug/kg | 342    | 342  | 1  |          | 04/03/20 23:06 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <342    | ug/kg | 342    | 342  | 1  |          | 04/03/20 23:06 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <68.4   | ug/kg | 68.4   | 68.4 | 1  |          | 04/03/20 23:06 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <68.4   | ug/kg | 68.4   | 68.4 | 1  |          | 04/03/20 23:06 | 79-00-5     |      |
| Trichloroethene                         | <68.4   | ug/kg | 68.4   | 68.4 | 1  |          | 04/03/20 23:06 | 79-01-6     |      |
| Trichlorofluoromethane                  | <137    | ug/kg | 137    | 137  | 1  |          | 04/03/20 23:06 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <137    | ug/kg | 137    | 137  | 1  |          | 04/03/20 23:06 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <342    | ug/kg | 342    | 342  | 1  |          | 04/03/20 23:06 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <137    | ug/kg | 137    | 137  | 1  |          | 04/03/20 23:06 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <137    | ug/kg | 137    | 137  | 1  |          | 04/03/20 23:06 | 108-67-8    |      |
| Vinyl chloride                          | <54.7   | ug/kg | 54.7   | 54.7 | 1  |          | 04/03/20 23:06 | 75-01-4     |      |
| m&p-Xylene                              | <34.2   | ug/kg | 68.4   | 34.2 | 1  |          | 04/03/20 23:06 | 179601-23-1 |      |
| o-Xylene                                | <34.2   | ug/kg | 68.4   | 34.2 | 1  |          | 04/03/20 23:06 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 111     | %     | 62-137 |      | 1  |          | 04/03/20 23:06 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 117     | %     | 64-139 |      | 1  |          | 04/03/20 23:06 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 115     | %     | 60-142 |      | 1  |          | 04/03/20 23:06 | 460-00-4    |      |
| <b>Percent Moisture</b>                 |         |       |        |      |    |          |                |             |      |
| Analytical Method: SM 2540G             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Percent Moisture                        | 12.5    | %     | 0.10   | 0.10 | 1  |          | 04/01/20 09:03 |             |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-113 (2-3)**      **Lab ID: 50253160025**      Collected: 03/23/20 15:50      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                      |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                           |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| n-Butanol  | <4910   | ug/kg | 4910   | 4910  | 1  |                | 03/31/20 00:13 | 71-36-3   |      |
| Ethanol  | <2790   | ug/kg | 2790   | 2790  | 1  |                | 03/31/20 00:13 | 64-17-5   | B0   |
| Methanol   | 233000  | ug/kg | 4910   | 4910  | 1  |                | 03/31/20 00:13 | 67-56-1   | B0   |
| <b>6010 MET ICP</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050        |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Arsenic  | 3260    | ug/kg | 2200   | 2200  | 1  | 03/31/20 06:15 | 04/05/20 14:37 | 7440-38-2 |      |
| Barium   | 24700   | ug/kg | 1100   | 1100  | 1  | 03/31/20 06:15 | 04/05/20 14:37 | 7440-39-3 |      |
| Chromium   | 7150    | ug/kg | 2200   | 2200  | 1  | 03/31/20 06:15 | 04/05/20 14:37 | 7440-47-3 |      |
| Lead   | 13800   | ug/kg | 11000  | 11000 | 1  | 03/31/20 06:15 | 04/05/20 14:37 | 7439-92-1 |      |
| <b>6020 MET ICPMS</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B       |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Cadmium  | 249     | ug/kg | 219    | 219   | 1  | 03/30/20 10:20 | 03/31/20 13:07 | 7440-43-9 |      |
| Selenium   | <1090   | ug/kg | 1090   | 1090  | 5  | 03/30/20 10:20 | 03/31/20 09:32 | 7782-49-2 | D3   |
| Silver   | <109    | ug/kg | 109    | 109   | 1  | 03/30/20 10:20 | 03/31/20 13:07 | 7440-22-4 |      |
| <b>7471 Mercury</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7471      Preparation Method: EPA 7471        |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Mercury  | <61.5   | ug/kg | 110    | 61.5  | 1  | 04/03/20 12:47 | 04/06/20 09:56 | 7439-97-6 |      |
| <b>8270 PAH Soil</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546 |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Acenaphthene   | <368    | ug/kg | 368    | 368   | 1  | 04/03/20 09:30 | 04/06/20 10:31 | 83-32-9   |      |
| Acenaphthylene   | <368    | ug/kg | 368    | 368   | 1  | 04/03/20 09:30 | 04/06/20 10:31 | 208-96-8  |      |
| Anthracene   | <368    | ug/kg | 368    | 368   | 1  | 04/03/20 09:30 | 04/06/20 10:31 | 120-12-7  |      |
| Benzo(a)anthracene   | <368    | ug/kg | 368    | 368   | 1  | 04/03/20 09:30 | 04/06/20 10:31 | 56-55-3   |      |
| Benzo(a)pyrene   | <368    | ug/kg | 368    | 368   | 1  | 04/03/20 09:30 | 04/06/20 10:31 | 50-32-8   |      |
| Benzo(b)fluoranthene   | <368    | ug/kg | 368    | 368   | 1  | 04/03/20 09:30 | 04/06/20 10:31 | 205-99-2  |      |
| Benzo(g,h,i)perylene   | <368    | ug/kg | 368    | 368   | 1  | 04/03/20 09:30 | 04/06/20 10:31 | 191-24-2  |      |
| Benzo(k)fluoranthene   | <368    | ug/kg | 368    | 368   | 1  | 04/03/20 09:30 | 04/06/20 10:31 | 207-08-9  |      |
| Chrysene   | <368    | ug/kg | 368    | 368   | 1  | 04/03/20 09:30 | 04/06/20 10:31 | 218-01-9  |      |
| Dibenz(a,h)anthracene  | <368    | ug/kg | 368    | 368   | 1  | 04/03/20 09:30 | 04/06/20 10:31 | 53-70-3   |      |
| Fluoranthene   | <368    | ug/kg | 368    | 368   | 1  | 04/03/20 09:30 | 04/06/20 10:31 | 206-44-0  |      |
| Fluorene   | <368    | ug/kg | 368    | 368   | 1  | 04/03/20 09:30 | 04/06/20 10:31 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | <368    | ug/kg | 368    | 368   | 1  | 04/03/20 09:30 | 04/06/20 10:31 | 193-39-5  |      |
| 2-Methylnaphthalene  | <368    | ug/kg | 368    | 368   | 1  | 04/03/20 09:30 | 04/06/20 10:31 | 91-57-6   |      |
| Naphthalene  | <368    | ug/kg | 368    | 368   | 1  | 04/03/20 09:30 | 04/06/20 10:31 | 91-20-3   |      |
| Phenanthrene   | <368    | ug/kg | 368    | 368   | 1  | 04/03/20 09:30 | 04/06/20 10:31 | 85-01-8   |      |
| Pyrene   | <368    | ug/kg | 368    | 368   | 1  | 04/03/20 09:30 | 04/06/20 10:31 | 129-00-0  |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)   | 60      | %     | 37-111 |       | 1  | 04/03/20 09:30 | 04/06/20 10:31 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 67      | %     | 29-124 |       | 1  | 04/03/20 09:30 | 04/06/20 10:31 | 1718-51-0 |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

Sample: MW-113 (2-3) Lab ID: 50253160025 Collected: 03/23/20 15:50 Received: 03/27/20 08:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Acetone                        | <1210   | ug/kg  | 1210 | 1210 | 1  |          | 04/03/20 23:38 | 67-64-1    |      |
| Acrylonitrile                  | <121    | ug/kg  | 121  | 121  | 1  |          | 04/03/20 23:38 | 107-13-1   |      |
| tert-Amyl methyl ether         | <303    | ug/kg  | 303  | 303  | 1  |          | 04/03/20 23:38 | 994-05-8   | N2   |
| Benzene                        | <60.6   | ug/kg  | 60.6 | 60.6 | 1  |          | 04/03/20 23:38 | 71-43-2    |      |
| Bromobenzene                   | <121    | ug/kg  | 121  | 121  | 1  |          | 04/03/20 23:38 | 108-86-1   |      |
| Bromochloromethane             | <30.3   | ug/kg  | 60.6 | 30.3 | 1  |          | 04/03/20 23:38 | 74-97-5    |      |
| Bromodichloromethane           | <121    | ug/kg  | 121  | 121  | 1  |          | 04/03/20 23:38 | 75-27-4    |      |
| Bromoform                      | <121    | ug/kg  | 121  | 121  | 1  |          | 04/03/20 23:38 | 75-25-2    |      |
| Bromomethane                   | <242    | ug/kg  | 242  | 242  | 1  |          | 04/03/20 23:38 | 74-83-9    | L1   |
| 2-Butanone (MEK)               | <909    | ug/kg  | 909  | 909  | 1  |          | 04/03/20 23:38 | 78-93-3    |      |
| tert-Butyl Alcohol             | <3030   | ug/kg  | 3030 | 3030 | 1  |          | 04/03/20 23:38 | 75-65-0    |      |
| n-Butylbenzene                 | <60.6   | ug/kg  | 60.6 | 60.6 | 1  |          | 04/03/20 23:38 | 104-51-8   |      |
| sec-Butylbenzene               | <60.6   | ug/kg  | 60.6 | 60.6 | 1  |          | 04/03/20 23:38 | 135-98-8   |      |
| tert-Butylbenzene              | <60.6   | ug/kg  | 60.6 | 60.6 | 1  |          | 04/03/20 23:38 | 98-06-6    |      |
| Carbon disulfide               | <303    | ug/kg  | 303  | 303  | 1  |          | 04/03/20 23:38 | 75-15-0    |      |
| Carbon tetrachloride           | <60.6   | ug/kg  | 60.6 | 60.6 | 1  |          | 04/03/20 23:38 | 56-23-5    |      |
| Chlorobenzene                  | <60.6   | ug/kg  | 60.6 | 60.6 | 1  |          | 04/03/20 23:38 | 108-90-7   |      |
| Chloroethane                   | <303    | ug/kg  | 303  | 303  | 1  |          | 04/03/20 23:38 | 75-00-3    |      |
| Chloroform                     | <60.6   | ug/kg  | 60.6 | 60.6 | 1  |          | 04/03/20 23:38 | 67-66-3    |      |
| Chloromethane                  | <303    | ug/kg  | 303  | 303  | 1  |          | 04/03/20 23:38 | 74-87-3    |      |
| Cyclohexane                    | <606    | ug/kg  | 606  | 606  | 1  |          | 04/03/20 23:38 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <60.6   | ug/kg  | 60.6 | 60.6 | 1  |          | 04/03/20 23:38 | 96-12-8    |      |
| Dibromochloromethane           | <121    | ug/kg  | 121  | 121  | 1  |          | 04/03/20 23:38 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <60.6   | ug/kg  | 60.6 | 60.6 | 1  |          | 04/03/20 23:38 | 106-93-4   |      |
| Dibromomethane                 | <303    | ug/kg  | 303  | 303  | 1  |          | 04/03/20 23:38 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <121    | ug/kg  | 121  | 121  | 1  |          | 04/03/20 23:38 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <121    | ug/kg  | 121  | 121  | 1  |          | 04/03/20 23:38 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <121    | ug/kg  | 121  | 121  | 1  |          | 04/03/20 23:38 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <121    | ug/kg  | 1210 | 121  | 1  |          | 04/03/20 23:38 | 110-57-6   |      |
| Dichlorodifluoromethane        | <303    | ug/kg  | 303  | 303  | 1  |          | 04/03/20 23:38 | 75-71-8    |      |
| 1,1-Dichloroethane             | <60.6   | ug/kg  | 60.6 | 60.6 | 1  |          | 04/03/20 23:38 | 75-34-3    |      |
| 1,2-Dichloroethane             | <60.6   | ug/kg  | 60.6 | 60.6 | 1  |          | 04/03/20 23:38 | 107-06-2   |      |
| 1,1-Dichloroethene             | <60.6   | ug/kg  | 60.6 | 60.6 | 1  |          | 04/03/20 23:38 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <60.6   | ug/kg  | 60.6 | 60.6 | 1  |          | 04/03/20 23:38 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <60.6   | ug/kg  | 60.6 | 60.6 | 1  |          | 04/03/20 23:38 | 156-60-5   |      |
| 1,2-Dichloropropane            | <60.6   | ug/kg  | 60.6 | 60.6 | 1  |          | 04/03/20 23:38 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <121    | ug/kg  | 121  | 121  | 1  |          | 04/03/20 23:38 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <121    | ug/kg  | 121  | 121  | 1  |          | 04/03/20 23:38 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <242    | ug/kg  | 242  | 242  | 1  |          | 04/03/20 23:38 | 60-29-7    |      |
| Diisopropyl ether              | <303    | ug/kg  | 303  | 303  | 1  |          | 04/03/20 23:38 | 108-20-3   | N2   |
| Ethylbenzene                   | <60.6   | ug/kg  | 60.6 | 60.6 | 1  |          | 04/03/20 23:38 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <303    | ug/kg  | 303  | 303  | 1  |          | 04/03/20 23:38 | 637-92-3   | N2   |
| Hexachloroethane               | <364    | ug/kg  | 364  | 364  | 1  |          | 04/03/20 23:38 | 67-72-1    | N2   |
| 2-Hexanone                     | <3030   | ug/kg  | 3030 | 3030 | 1  |          | 04/03/20 23:38 | 591-78-6   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-113 (2-3)**      **Lab ID: 50253160025**      Collected: 03/23/20 15:50      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Iodomethane                             | <121    | ug/kg | 1210   | 121  | 1  |          | 04/03/20 23:38 | 74-88-4     |      |
| Isopropylbenzene (Cumene)               | <303    | ug/kg | 303    | 303  | 1  |          | 04/03/20 23:38 | 98-82-8     |      |
| p-Isopropyltoluene                      | <30.3   | ug/kg | 60.6   | 30.3 | 1  |          | 04/03/20 23:38 | 99-87-6     |      |
| Methylene Chloride                      | <121    | ug/kg | 121    | 121  | 1  |          | 04/03/20 23:38 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <400    | ug/kg | 400    | 400  | 1  |          | 04/03/20 23:38 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <3030   | ug/kg | 3030   | 3030 | 1  |          | 04/03/20 23:38 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <303    | ug/kg | 303    | 303  | 1  |          | 04/03/20 23:38 | 1634-04-4   |      |
| Naphthalene                             | <400    | ug/kg | 400    | 400  | 1  |          | 04/03/20 23:38 | 91-20-3     |      |
| n-Propylbenzene                         | <121    | ug/kg | 121    | 121  | 1  |          | 04/03/20 23:38 | 103-65-1    |      |
| Styrene                                 | <60.6   | ug/kg | 60.6   | 60.6 | 1  |          | 04/03/20 23:38 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <121    | ug/kg | 121    | 121  | 1  |          | 04/03/20 23:38 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <60.6   | ug/kg | 60.6   | 60.6 | 1  |          | 04/03/20 23:38 | 79-34-5     |      |
| Tetrachloroethene                       | <60.6   | ug/kg | 60.6   | 60.6 | 1  |          | 04/03/20 23:38 | 127-18-4    |      |
| Tetrahydrofuran                         | <1210   | ug/kg | 1210   | 1210 | 1  |          | 04/03/20 23:38 | 109-99-9    | N2   |
| Toluene                                 | <121    | ug/kg | 121    | 121  | 1  |          | 04/03/20 23:38 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <303    | ug/kg | 303    | 303  | 1  |          | 04/03/20 23:38 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <303    | ug/kg | 303    | 303  | 1  |          | 04/03/20 23:38 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <60.6   | ug/kg | 60.6   | 60.6 | 1  |          | 04/03/20 23:38 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <60.6   | ug/kg | 60.6   | 60.6 | 1  |          | 04/03/20 23:38 | 79-00-5     |      |
| Trichloroethene                         | <60.6   | ug/kg | 60.6   | 60.6 | 1  |          | 04/03/20 23:38 | 79-01-6     |      |
| Trichlorofluoromethane                  | <121    | ug/kg | 121    | 121  | 1  |          | 04/03/20 23:38 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <121    | ug/kg | 121    | 121  | 1  |          | 04/03/20 23:38 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <303    | ug/kg | 303    | 303  | 1  |          | 04/03/20 23:38 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <121    | ug/kg | 121    | 121  | 1  |          | 04/03/20 23:38 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <121    | ug/kg | 121    | 121  | 1  |          | 04/03/20 23:38 | 108-67-8    |      |
| Vinyl chloride                          | <48.5   | ug/kg | 48.5   | 48.5 | 1  |          | 04/03/20 23:38 | 75-01-4     |      |
| m&p-Xylene                              | <30.3   | ug/kg | 60.6   | 30.3 | 1  |          | 04/03/20 23:38 | 179601-23-1 |      |
| o-Xylene                                | <30.3   | ug/kg | 60.6   | 30.3 | 1  |          | 04/03/20 23:38 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 111     | %     | 62-137 |      | 1  |          | 04/03/20 23:38 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 118     | %     | 64-139 |      | 1  |          | 04/03/20 23:38 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 113     | %     | 60-142 |      | 1  |          | 04/03/20 23:38 | 460-00-4    |      |

**Percent Moisture**

Analytical Method: SM 2540G  
Pace Analytical Services - Indianapolis

Percent Moisture      **10.4**      %      0.10      0.10      1      04/01/20 09:03

**7196 Chromium, Hexavalent**

Analytical Method: EPA 7196A      Preparation Method: EPA 3060A  
Pace Analytical Services - Indianapolis

Chromium, Hexavalent      <2.2      mg/kg      2.2      2.2      1      04/17/20 09:08      04/18/20 10:04      18540-29-9

**Trivalent Chromium Calculation**

Analytical Method: Trivalent Chromium Calculation  
Pace Analytical Services - Indianapolis

Chromium, Trivalent      **7.2**      mg/kg      1.0           1      04/23/20 07:38      16065-83-1

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-114 (3-4)**      **Lab ID: 50253160026**      Collected: 03/24/20 11:00      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                      |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                           |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| n-Butanol  | <5300   | ug/kg | 5300   | 5300  | 1  |                | 03/31/20 00:22 | 71-36-3   |      |
| Ethanol  | <3010   | ug/kg | 3010   | 3010  | 1  |                | 03/31/20 00:22 | 64-17-5   | B0   |
| Methanol   | 43000   | ug/kg | 5300   | 5300  | 1  |                | 03/31/20 00:22 | 67-56-1   | B0   |
| <b>6010 MET ICP</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050        |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Arsenic  | 7760    | ug/kg | 2030   | 2030  | 1  | 03/31/20 06:15 | 04/05/20 14:39 | 7440-38-2 |      |
| Barium   | 225000  | ug/kg | 1010   | 1010  | 1  | 03/31/20 06:15 | 04/05/20 14:39 | 7440-39-3 |      |
| Chromium   | 11600   | ug/kg | 2030   | 2030  | 1  | 03/31/20 06:15 | 04/05/20 14:39 | 7440-47-3 |      |
| Lead   | 75900   | ug/kg | 10100  | 10100 | 1  | 03/31/20 06:15 | 04/05/20 14:39 | 7439-92-1 |      |
| <b>6020 MET ICPMS</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B       |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Cadmium  | 2800    | ug/kg | 241    | 241   | 1  | 03/30/20 10:20 | 03/31/20 13:12 | 7440-43-9 |      |
| Selenium   | <2410   | ug/kg | 2410   | 2410  | 10 | 03/30/20 10:20 | 04/02/20 04:02 | 7782-49-2 | D3   |
| Silver   | 2890    | ug/kg | 120    | 120   | 1  | 03/30/20 10:20 | 03/31/20 13:12 | 7440-22-4 |      |
| <b>7471 Mercury</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7471      Preparation Method: EPA 7471        |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Mercury  | 218     | ug/kg | 123    | 69.0  | 1  | 04/03/20 12:47 | 04/06/20 09:59 | 7439-97-6 |      |
| <b>8270 PAH Soil</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546 |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Acenaphthene   | <3950   | ug/kg | 3950   | 3950  | 10 | 04/03/20 09:30 | 04/03/20 16:22 | 83-32-9   |      |
| Acenaphthylene   | <3950   | ug/kg | 3950   | 3950  | 10 | 04/03/20 09:30 | 04/03/20 16:22 | 208-96-8  |      |
| Anthracene   | 11100   | ug/kg | 3950   | 3950  | 10 | 04/03/20 09:30 | 04/03/20 16:22 | 120-12-7  |      |
| Benzo(a)anthracene   | 12600   | ug/kg | 3950   | 3950  | 10 | 04/03/20 09:30 | 04/03/20 16:22 | 56-55-3   |      |
| Benzo(a)pyrene   | 11600   | ug/kg | 3950   | 3950  | 10 | 04/03/20 09:30 | 04/03/20 16:22 | 50-32-8   |      |
| Benzo(b)fluoranthene   | 12700   | ug/kg | 3950   | 3950  | 10 | 04/03/20 09:30 | 04/03/20 16:22 | 205-99-2  |      |
| Benzo(g,h,i)perylene   | 6950    | ug/kg | 3950   | 3950  | 10 | 04/03/20 09:30 | 04/03/20 16:22 | 191-24-2  |      |
| Benzo(k)fluoranthene   | 7880    | ug/kg | 3950   | 3950  | 10 | 04/03/20 09:30 | 04/03/20 16:22 | 207-08-9  |      |
| Chrysene   | 11400   | ug/kg | 3950   | 3950  | 10 | 04/03/20 09:30 | 04/03/20 16:22 | 218-01-9  |      |
| Dibenz(a,h)anthracene  | <3950   | ug/kg | 3950   | 3950  | 10 | 04/03/20 09:30 | 04/03/20 16:22 | 53-70-3   |      |
| Fluoranthene   | 33900   | ug/kg | 3950   | 3950  | 10 | 04/03/20 09:30 | 04/03/20 16:22 | 206-44-0  |      |
| Fluorene   | 4400    | ug/kg | 3950   | 3950  | 10 | 04/03/20 09:30 | 04/03/20 16:22 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | 6190    | ug/kg | 3950   | 3950  | 10 | 04/03/20 09:30 | 04/03/20 16:22 | 193-39-5  |      |
| 2-Methylnaphthalene  | <3950   | ug/kg | 3950   | 3950  | 10 | 04/03/20 09:30 | 04/03/20 16:22 | 91-57-6   |      |
| Naphthalene  | <3950   | ug/kg | 3950   | 3950  | 10 | 04/03/20 09:30 | 04/03/20 16:22 | 91-20-3   | ED   |
| Phenanthrene   | 33500   | ug/kg | 3950   | 3950  | 10 | 04/03/20 09:30 | 04/03/20 16:22 | 85-01-8   |      |
| Pyrene   | 24900   | ug/kg | 3950   | 3950  | 10 | 04/03/20 09:30 | 04/03/20 16:22 | 129-00-0  |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)   | 31      | %     | 37-111 |       | 10 | 04/03/20 09:30 | 04/03/20 16:22 | 321-60-8  | S4   |
| p-Terphenyl-d14 (S)  | 39      | %     | 29-124 |       | 10 | 04/03/20 09:30 | 04/03/20 16:22 | 1718-51-0 |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale

Pace Project No.: 50253160

Sample: MW-114 (3-4) Lab ID: 50253160026 Collected: 03/24/20 11:00 Received: 03/27/20 08:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Acetone                        | <1870   | ug/kg  | 1870 | 1870 | 1  |          | 04/04/20 00:11 | 67-64-1    |      |
| Acrylonitrile                  | <187    | ug/kg  | 187  | 187  | 1  |          | 04/04/20 00:11 | 107-13-1   |      |
| tert-Amyl methyl ether         | <468    | ug/kg  | 468  | 468  | 1  |          | 04/04/20 00:11 | 994-05-8   | N2   |
| Benzene                        | <93.7   | ug/kg  | 93.7 | 93.7 | 1  |          | 04/04/20 00:11 | 71-43-2    |      |
| Bromobenzene                   | <187    | ug/kg  | 187  | 187  | 1  |          | 04/04/20 00:11 | 108-86-1   |      |
| Bromochloromethane             | <46.8   | ug/kg  | 93.7 | 46.8 | 1  |          | 04/04/20 00:11 | 74-97-5    |      |
| Bromodichloromethane           | <187    | ug/kg  | 187  | 187  | 1  |          | 04/04/20 00:11 | 75-27-4    |      |
| Bromoform                      | <187    | ug/kg  | 187  | 187  | 1  |          | 04/04/20 00:11 | 75-25-2    |      |
| Bromomethane                   | <375    | ug/kg  | 375  | 375  | 1  |          | 04/04/20 00:11 | 74-83-9    | L1   |
| 2-Butanone (MEK)               | <1410   | ug/kg  | 1410 | 1410 | 1  |          | 04/04/20 00:11 | 78-93-3    |      |
| tert-Butyl Alcohol             | <4680   | ug/kg  | 4680 | 4680 | 1  |          | 04/04/20 00:11 | 75-65-0    |      |
| n-Butylbenzene                 | <93.7   | ug/kg  | 93.7 | 93.7 | 1  |          | 04/04/20 00:11 | 104-51-8   |      |
| sec-Butylbenzene               | <93.7   | ug/kg  | 93.7 | 93.7 | 1  |          | 04/04/20 00:11 | 135-98-8   |      |
| tert-Butylbenzene              | <93.7   | ug/kg  | 93.7 | 93.7 | 1  |          | 04/04/20 00:11 | 98-06-6    |      |
| Carbon disulfide               | <468    | ug/kg  | 468  | 468  | 1  |          | 04/04/20 00:11 | 75-15-0    |      |
| Carbon tetrachloride           | <93.7   | ug/kg  | 93.7 | 93.7 | 1  |          | 04/04/20 00:11 | 56-23-5    |      |
| Chlorobenzene                  | <93.7   | ug/kg  | 93.7 | 93.7 | 1  |          | 04/04/20 00:11 | 108-90-7   |      |
| Chloroethane                   | <468    | ug/kg  | 468  | 468  | 1  |          | 04/04/20 00:11 | 75-00-3    |      |
| Chloroform                     | <93.7   | ug/kg  | 93.7 | 93.7 | 1  |          | 04/04/20 00:11 | 67-66-3    |      |
| Chloromethane                  | <468    | ug/kg  | 468  | 468  | 1  |          | 04/04/20 00:11 | 74-87-3    |      |
| Cyclohexane                    | <937    | ug/kg  | 937  | 937  | 1  |          | 04/04/20 00:11 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <93.7   | ug/kg  | 93.7 | 93.7 | 1  |          | 04/04/20 00:11 | 96-12-8    |      |
| Dibromochloromethane           | <187    | ug/kg  | 187  | 187  | 1  |          | 04/04/20 00:11 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <93.7   | ug/kg  | 93.7 | 93.7 | 1  |          | 04/04/20 00:11 | 106-93-4   |      |
| Dibromomethane                 | <468    | ug/kg  | 468  | 468  | 1  |          | 04/04/20 00:11 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <187    | ug/kg  | 187  | 187  | 1  |          | 04/04/20 00:11 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <187    | ug/kg  | 187  | 187  | 1  |          | 04/04/20 00:11 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <187    | ug/kg  | 187  | 187  | 1  |          | 04/04/20 00:11 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <187    | ug/kg  | 1870 | 187  | 1  |          | 04/04/20 00:11 | 110-57-6   |      |
| Dichlorodifluoromethane        | <468    | ug/kg  | 468  | 468  | 1  |          | 04/04/20 00:11 | 75-71-8    |      |
| 1,1-Dichloroethane             | <93.7   | ug/kg  | 93.7 | 93.7 | 1  |          | 04/04/20 00:11 | 75-34-3    |      |
| 1,2-Dichloroethane             | <93.7   | ug/kg  | 93.7 | 93.7 | 1  |          | 04/04/20 00:11 | 107-06-2   |      |
| 1,1-Dichloroethene             | <93.7   | ug/kg  | 93.7 | 93.7 | 1  |          | 04/04/20 00:11 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <93.7   | ug/kg  | 93.7 | 93.7 | 1  |          | 04/04/20 00:11 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <93.7   | ug/kg  | 93.7 | 93.7 | 1  |          | 04/04/20 00:11 | 156-60-5   |      |
| 1,2-Dichloropropane            | <93.7   | ug/kg  | 93.7 | 93.7 | 1  |          | 04/04/20 00:11 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <187    | ug/kg  | 187  | 187  | 1  |          | 04/04/20 00:11 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <187    | ug/kg  | 187  | 187  | 1  |          | 04/04/20 00:11 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <375    | ug/kg  | 375  | 375  | 1  |          | 04/04/20 00:11 | 60-29-7    |      |
| Diisopropyl ether              | <468    | ug/kg  | 468  | 468  | 1  |          | 04/04/20 00:11 | 108-20-3   | N2   |
| Ethylbenzene                   | <93.7   | ug/kg  | 93.7 | 93.7 | 1  |          | 04/04/20 00:11 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <468    | ug/kg  | 468  | 468  | 1  |          | 04/04/20 00:11 | 637-92-3   | N2   |
| Hexachloroethane               | <562    | ug/kg  | 562  | 562  | 1  |          | 04/04/20 00:11 | 67-72-1    | N2   |
| 2-Hexanone                     | <4680   | ug/kg  | 4680 | 4680 | 1  |          | 04/04/20 00:11 | 591-78-6   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-114 (3-4)**      **Lab ID: 50253160026**      Collected: 03/24/20 11:00      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Iodomethane                             | <187    | ug/kg | 1870   | 187  | 1  |          | 04/04/20 00:11 | 74-88-4     |      |
| Isopropylbenzene (Cumene)               | <468    | ug/kg | 468    | 468  | 1  |          | 04/04/20 00:11 | 98-82-8     |      |
| p-Isopropyltoluene                      | <46.8   | ug/kg | 93.7   | 46.8 | 1  |          | 04/04/20 00:11 | 99-87-6     |      |
| Methylene Chloride                      | <187    | ug/kg | 187    | 187  | 1  |          | 04/04/20 00:11 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <618    | ug/kg | 618    | 618  | 1  |          | 04/04/20 00:11 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <4680   | ug/kg | 4680   | 4680 | 1  |          | 04/04/20 00:11 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <468    | ug/kg | 468    | 468  | 1  |          | 04/04/20 00:11 | 1634-04-4   |      |
| Naphthalene                             | <618    | ug/kg | 618    | 618  | 1  |          | 04/04/20 00:11 | 91-20-3     |      |
| n-Propylbenzene                         | <187    | ug/kg | 187    | 187  | 1  |          | 04/04/20 00:11 | 103-65-1    |      |
| Styrene                                 | <93.7   | ug/kg | 93.7   | 93.7 | 1  |          | 04/04/20 00:11 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <187    | ug/kg | 187    | 187  | 1  |          | 04/04/20 00:11 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <93.7   | ug/kg | 93.7   | 93.7 | 1  |          | 04/04/20 00:11 | 79-34-5     |      |
| Tetrachloroethene                       | <93.7   | ug/kg | 93.7   | 93.7 | 1  |          | 04/04/20 00:11 | 127-18-4    |      |
| Tetrahydrofuran                         | <1870   | ug/kg | 1870   | 1870 | 1  |          | 04/04/20 00:11 | 109-99-9    | N2   |
| Toluene                                 | <187    | ug/kg | 187    | 187  | 1  |          | 04/04/20 00:11 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <468    | ug/kg | 468    | 468  | 1  |          | 04/04/20 00:11 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <468    | ug/kg | 468    | 468  | 1  |          | 04/04/20 00:11 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <93.7   | ug/kg | 93.7   | 93.7 | 1  |          | 04/04/20 00:11 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <93.7   | ug/kg | 93.7   | 93.7 | 1  |          | 04/04/20 00:11 | 79-00-5     |      |
| Trichloroethene                         | <93.7   | ug/kg | 93.7   | 93.7 | 1  |          | 04/04/20 00:11 | 79-01-6     |      |
| Trichlorofluoromethane                  | <187    | ug/kg | 187    | 187  | 1  |          | 04/04/20 00:11 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <187    | ug/kg | 187    | 187  | 1  |          | 04/04/20 00:11 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <468    | ug/kg | 468    | 468  | 1  |          | 04/04/20 00:11 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <187    | ug/kg | 187    | 187  | 1  |          | 04/04/20 00:11 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <187    | ug/kg | 187    | 187  | 1  |          | 04/04/20 00:11 | 108-67-8    |      |
| Vinyl chloride                          | <74.9   | ug/kg | 74.9   | 74.9 | 1  |          | 04/04/20 00:11 | 75-01-4     |      |
| m&p-Xylene                              | <46.8   | ug/kg | 93.7   | 46.8 | 1  |          | 04/04/20 00:11 | 179601-23-1 |      |
| o-Xylene                                | <46.8   | ug/kg | 93.7   | 46.8 | 1  |          | 04/04/20 00:11 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 115     | %     | 62-137 |      | 1  |          | 04/04/20 00:11 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 120     | %     | 64-139 |      | 1  |          | 04/04/20 00:11 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 116     | %     | 60-142 |      | 1  |          | 04/04/20 00:11 | 460-00-4    |      |

**Percent Moisture**

Analytical Method: SM 2540G  
Pace Analytical Services - Indianapolis

|                  |             |   |      |      |   |  |                |  |  |
|------------------|-------------|---|------|------|---|--|----------------|--|--|
| Percent Moisture | <b>16.9</b> | % | 0.10 | 0.10 | 1 |  | 04/01/20 09:04 |  |  |
|------------------|-------------|---|------|------|---|--|----------------|--|--|

**7196 Chromium, Hexavalent**

Analytical Method: EPA 7196A Preparation Method: EPA 3060A  
Pace Analytical Services - Indianapolis

|                      |      |       |     |     |   |                |                |            |  |
|----------------------|------|-------|-----|-----|---|----------------|----------------|------------|--|
| Chromium, Hexavalent | <2.4 | mg/kg | 2.4 | 2.4 | 1 | 04/17/20 09:08 | 04/18/20 10:04 | 18540-29-9 |  |
|----------------------|------|-------|-----|-----|---|----------------|----------------|------------|--|

**Trivalent Chromium Calculation**

Analytical Method: Trivalent Chromium Calculation  
Pace Analytical Services - Indianapolis

|                     |             |       |     |  |   |  |                |            |  |
|---------------------|-------------|-------|-----|--|---|--|----------------|------------|--|
| Chromium, Trivalent | <b>11.6</b> | mg/kg | 1.0 |  | 1 |  | 04/23/20 07:38 | 16065-83-1 |  |
|---------------------|-------------|-------|-----|--|---|--|----------------|------------|--|

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: MW-115 (2-3)**      **Lab ID: 50253160027**      Collected: 03/24/20 12:15      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                      |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                           |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| n-Butanol  | <5190   | ug/kg | 5190   | 5190  | 1  |                | 03/31/20 00:31 | 71-36-3   |      |
| Ethanol  | <2950   | ug/kg | 2950   | 2950  | 1  |                | 03/31/20 00:31 | 64-17-5   | B0   |
| Methanol   | <5190   | ug/kg | 5190   | 5190  | 1  |                | 03/31/20 00:31 | 67-56-1   | B0   |
| <b>6010 MET ICP</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050        |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Arsenic  | 6680    | ug/kg | 2350   | 2350  | 1  | 03/31/20 06:15 | 04/05/20 14:41 | 7440-38-2 |      |
| Barium   | 59000   | ug/kg | 1170   | 1170  | 1  | 03/31/20 06:15 | 04/05/20 14:41 | 7440-39-3 |      |
| Chromium   | 17700   | ug/kg | 2350   | 2350  | 1  | 03/31/20 06:15 | 04/05/20 14:41 | 7440-47-3 |      |
| Lead   | <11700  | ug/kg | 11700  | 11700 | 1  | 03/31/20 06:15 | 04/05/20 14:41 | 7439-92-1 |      |
| <b>6020 MET ICPMS</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B       |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Cadmium  | <234    | ug/kg | 234    | 234   | 1  | 03/30/20 10:20 | 03/31/20 13:21 | 7440-43-9 |      |
| Selenium   | <2340   | ug/kg | 2340   | 2340  | 10 | 03/30/20 10:20 | 04/02/20 04:06 | 7782-49-2 | D3   |
| Silver   | <117    | ug/kg | 117    | 117   | 1  | 03/30/20 10:20 | 03/31/20 13:21 | 7440-22-4 |      |
| <b>7471 Mercury</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7471      Preparation Method: EPA 7471        |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Mercury  | <66.1   | ug/kg | 118    | 66.1  | 1  | 04/03/20 12:47 | 04/06/20 10:08 | 7439-97-6 |      |
| <b>8270 PAH Soil</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546 |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Acenaphthene   | <387    | ug/kg | 387    | 387   | 1  | 04/03/20 09:30 | 04/06/20 12:40 | 83-32-9   |      |
| Acenaphthylene   | <387    | ug/kg | 387    | 387   | 1  | 04/03/20 09:30 | 04/06/20 12:40 | 208-96-8  |      |
| Anthracene   | <387    | ug/kg | 387    | 387   | 1  | 04/03/20 09:30 | 04/06/20 12:40 | 120-12-7  |      |
| Benzo(a)anthracene   | <387    | ug/kg | 387    | 387   | 1  | 04/03/20 09:30 | 04/06/20 12:40 | 56-55-3   |      |
| Benzo(a)pyrene   | <387    | ug/kg | 387    | 387   | 1  | 04/03/20 09:30 | 04/06/20 12:40 | 50-32-8   |      |
| Benzo(b)fluoranthene   | <387    | ug/kg | 387    | 387   | 1  | 04/03/20 09:30 | 04/06/20 12:40 | 205-99-2  |      |
| Benzo(g,h,i)perylene   | <387    | ug/kg | 387    | 387   | 1  | 04/03/20 09:30 | 04/06/20 12:40 | 191-24-2  |      |
| Benzo(k)fluoranthene   | <387    | ug/kg | 387    | 387   | 1  | 04/03/20 09:30 | 04/06/20 12:40 | 207-08-9  |      |
| Chrysene   | <387    | ug/kg | 387    | 387   | 1  | 04/03/20 09:30 | 04/06/20 12:40 | 218-01-9  |      |
| Dibenz(a,h)anthracene  | <387    | ug/kg | 387    | 387   | 1  | 04/03/20 09:30 | 04/06/20 12:40 | 53-70-3   |      |
| Fluoranthene   | <387    | ug/kg | 387    | 387   | 1  | 04/03/20 09:30 | 04/06/20 12:40 | 206-44-0  |      |
| Fluorene   | <387    | ug/kg | 387    | 387   | 1  | 04/03/20 09:30 | 04/06/20 12:40 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | <387    | ug/kg | 387    | 387   | 1  | 04/03/20 09:30 | 04/06/20 12:40 | 193-39-5  |      |
| 2-Methylnaphthalene  | <387    | ug/kg | 387    | 387   | 1  | 04/03/20 09:30 | 04/06/20 12:40 | 91-57-6   |      |
| Naphthalene  | <387    | ug/kg | 387    | 387   | 1  | 04/03/20 09:30 | 04/06/20 12:40 | 91-20-3   |      |
| Phenanthrene   | <387    | ug/kg | 387    | 387   | 1  | 04/03/20 09:30 | 04/06/20 12:40 | 85-01-8   |      |
| Pyrene   | <387    | ug/kg | 387    | 387   | 1  | 04/03/20 09:30 | 04/06/20 12:40 | 129-00-0  |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)   | 66      | %     | 37-111 |       | 1  | 04/03/20 09:30 | 04/06/20 12:40 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 66      | %     | 29-124 |       | 1  | 04/03/20 09:30 | 04/06/20 12:40 | 1718-51-0 |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale

Pace Project No.: 50253160

Sample: MW-115 (2-3) Lab ID: 50253160027 Collected: 03/24/20 12:15 Received: 03/27/20 08:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Acetone                        | <2390   | ug/kg  | 2390 | 2390 | 1  |          | 04/04/20 00:44 | 67-64-1    |      |
| Acrylonitrile                  | <239    | ug/kg  | 239  | 239  | 1  |          | 04/04/20 00:44 | 107-13-1   |      |
| tert-Amyl methyl ether         | <598    | ug/kg  | 598  | 598  | 1  |          | 04/04/20 00:44 | 994-05-8   | N2   |
| Benzene                        | <120    | ug/kg  | 120  | 120  | 1  |          | 04/04/20 00:44 | 71-43-2    |      |
| Bromobenzene                   | <239    | ug/kg  | 239  | 239  | 1  |          | 04/04/20 00:44 | 108-86-1   |      |
| Bromochloromethane             | <59.8   | ug/kg  | 120  | 59.8 | 1  |          | 04/04/20 00:44 | 74-97-5    |      |
| Bromodichloromethane           | <239    | ug/kg  | 239  | 239  | 1  |          | 04/04/20 00:44 | 75-27-4    |      |
| Bromoform                      | <239    | ug/kg  | 239  | 239  | 1  |          | 04/04/20 00:44 | 75-25-2    |      |
| Bromomethane                   | <478    | ug/kg  | 478  | 478  | 1  |          | 04/04/20 00:44 | 74-83-9    | L1   |
| 2-Butanone (MEK)               | <1790   | ug/kg  | 1790 | 1790 | 1  |          | 04/04/20 00:44 | 78-93-3    |      |
| tert-Butyl Alcohol             | <5980   | ug/kg  | 5980 | 5980 | 1  |          | 04/04/20 00:44 | 75-65-0    |      |
| n-Butylbenzene                 | <120    | ug/kg  | 120  | 120  | 1  |          | 04/04/20 00:44 | 104-51-8   |      |
| sec-Butylbenzene               | <120    | ug/kg  | 120  | 120  | 1  |          | 04/04/20 00:44 | 135-98-8   |      |
| tert-Butylbenzene              | <120    | ug/kg  | 120  | 120  | 1  |          | 04/04/20 00:44 | 98-06-6    |      |
| Carbon disulfide               | <598    | ug/kg  | 598  | 598  | 1  |          | 04/04/20 00:44 | 75-15-0    |      |
| Carbon tetrachloride           | <120    | ug/kg  | 120  | 120  | 1  |          | 04/04/20 00:44 | 56-23-5    |      |
| Chlorobenzene                  | <120    | ug/kg  | 120  | 120  | 1  |          | 04/04/20 00:44 | 108-90-7   |      |
| Chloroethane                   | <598    | ug/kg  | 598  | 598  | 1  |          | 04/04/20 00:44 | 75-00-3    |      |
| Chloroform                     | <120    | ug/kg  | 120  | 120  | 1  |          | 04/04/20 00:44 | 67-66-3    |      |
| Chloromethane                  | <598    | ug/kg  | 598  | 598  | 1  |          | 04/04/20 00:44 | 74-87-3    |      |
| Cyclohexane                    | <1200   | ug/kg  | 1200 | 1200 | 1  |          | 04/04/20 00:44 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <120    | ug/kg  | 120  | 120  | 1  |          | 04/04/20 00:44 | 96-12-8    |      |
| Dibromochloromethane           | <239    | ug/kg  | 239  | 239  | 1  |          | 04/04/20 00:44 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <120    | ug/kg  | 120  | 120  | 1  |          | 04/04/20 00:44 | 106-93-4   |      |
| Dibromomethane                 | <598    | ug/kg  | 598  | 598  | 1  |          | 04/04/20 00:44 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <239    | ug/kg  | 239  | 239  | 1  |          | 04/04/20 00:44 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <239    | ug/kg  | 239  | 239  | 1  |          | 04/04/20 00:44 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <239    | ug/kg  | 239  | 239  | 1  |          | 04/04/20 00:44 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <239    | ug/kg  | 2390 | 239  | 1  |          | 04/04/20 00:44 | 110-57-6   |      |
| Dichlorodifluoromethane        | <598    | ug/kg  | 598  | 598  | 1  |          | 04/04/20 00:44 | 75-71-8    |      |
| 1,1-Dichloroethane             | <120    | ug/kg  | 120  | 120  | 1  |          | 04/04/20 00:44 | 75-34-3    |      |
| 1,2-Dichloroethane             | <120    | ug/kg  | 120  | 120  | 1  |          | 04/04/20 00:44 | 107-06-2   |      |
| 1,1-Dichloroethene             | <120    | ug/kg  | 120  | 120  | 1  |          | 04/04/20 00:44 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <120    | ug/kg  | 120  | 120  | 1  |          | 04/04/20 00:44 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <120    | ug/kg  | 120  | 120  | 1  |          | 04/04/20 00:44 | 156-60-5   |      |
| 1,2-Dichloropropane            | <120    | ug/kg  | 120  | 120  | 1  |          | 04/04/20 00:44 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <239    | ug/kg  | 239  | 239  | 1  |          | 04/04/20 00:44 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <239    | ug/kg  | 239  | 239  | 1  |          | 04/04/20 00:44 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <478    | ug/kg  | 478  | 478  | 1  |          | 04/04/20 00:44 | 60-29-7    |      |
| Diisopropyl ether              | <598    | ug/kg  | 598  | 598  | 1  |          | 04/04/20 00:44 | 108-20-3   | N2   |
| Ethylbenzene                   | <120    | ug/kg  | 120  | 120  | 1  |          | 04/04/20 00:44 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <598    | ug/kg  | 598  | 598  | 1  |          | 04/04/20 00:44 | 637-92-3   | N2   |
| Hexachloroethane               | <718    | ug/kg  | 718  | 718  | 1  |          | 04/04/20 00:44 | 67-72-1    | N2   |
| 2-Hexanone                     | <5980   | ug/kg  | 5980 | 5980 | 1  |          | 04/04/20 00:44 | 591-78-6   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale

Pace Project No.: 50253160

**Sample: MW-115 (2-3)**      **Lab ID: 50253160027**      Collected: 03/24/20 12:15      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Iodomethane                             | <239    | ug/kg | 2390   | 239  | 1  |          | 04/04/20 00:44 | 74-88-4     |      |
| Isopropylbenzene (Cumene)               | <598    | ug/kg | 598    | 598  | 1  |          | 04/04/20 00:44 | 98-82-8     |      |
| p-Isopropyltoluene                      | <59.8   | ug/kg | 120    | 59.8 | 1  |          | 04/04/20 00:44 | 99-87-6     |      |
| Methylene Chloride                      | <239    | ug/kg | 239    | 239  | 1  |          | 04/04/20 00:44 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <789    | ug/kg | 789    | 789  | 1  |          | 04/04/20 00:44 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <5980   | ug/kg | 5980   | 5980 | 1  |          | 04/04/20 00:44 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <598    | ug/kg | 598    | 598  | 1  |          | 04/04/20 00:44 | 1634-04-4   |      |
| Naphthalene                             | <789    | ug/kg | 789    | 789  | 1  |          | 04/04/20 00:44 | 91-20-3     |      |
| n-Propylbenzene                         | <239    | ug/kg | 239    | 239  | 1  |          | 04/04/20 00:44 | 103-65-1    |      |
| Styrene                                 | <120    | ug/kg | 120    | 120  | 1  |          | 04/04/20 00:44 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <239    | ug/kg | 239    | 239  | 1  |          | 04/04/20 00:44 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <120    | ug/kg | 120    | 120  | 1  |          | 04/04/20 00:44 | 79-34-5     |      |
| Tetrachloroethene                       | <120    | ug/kg | 120    | 120  | 1  |          | 04/04/20 00:44 | 127-18-4    |      |
| Tetrahydrofuran                         | <2390   | ug/kg | 2390   | 2390 | 1  |          | 04/04/20 00:44 | 109-99-9    | N2   |
| Toluene                                 | <239    | ug/kg | 239    | 239  | 1  |          | 04/04/20 00:44 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <598    | ug/kg | 598    | 598  | 1  |          | 04/04/20 00:44 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <598    | ug/kg | 598    | 598  | 1  |          | 04/04/20 00:44 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <120    | ug/kg | 120    | 120  | 1  |          | 04/04/20 00:44 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <120    | ug/kg | 120    | 120  | 1  |          | 04/04/20 00:44 | 79-00-5     |      |
| Trichloroethene                         | <120    | ug/kg | 120    | 120  | 1  |          | 04/04/20 00:44 | 79-01-6     |      |
| Trichlorofluoromethane                  | <239    | ug/kg | 239    | 239  | 1  |          | 04/04/20 00:44 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <239    | ug/kg | 239    | 239  | 1  |          | 04/04/20 00:44 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <598    | ug/kg | 598    | 598  | 1  |          | 04/04/20 00:44 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <239    | ug/kg | 239    | 239  | 1  |          | 04/04/20 00:44 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <239    | ug/kg | 239    | 239  | 1  |          | 04/04/20 00:44 | 108-67-8    |      |
| Vinyl chloride                          | <95.7   | ug/kg | 95.7   | 95.7 | 1  |          | 04/04/20 00:44 | 75-01-4     |      |
| m&p-Xylene                              | <59.8   | ug/kg | 120    | 59.8 | 1  |          | 04/04/20 00:44 | 179601-23-1 |      |
| o-Xylene                                | <59.8   | ug/kg | 120    | 59.8 | 1  |          | 04/04/20 00:44 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 110     | %     | 62-137 |      | 1  |          | 04/04/20 00:44 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 115     | %     | 64-139 |      | 1  |          | 04/04/20 00:44 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 111     | %     | 60-142 |      | 1  |          | 04/04/20 00:44 | 460-00-4    |      |

**Percent Moisture**

Analytical Method: SM 2540G  
Pace Analytical Services - Indianapolis

|                  |             |   |      |      |   |  |                |  |  |
|------------------|-------------|---|------|------|---|--|----------------|--|--|
| Percent Moisture | <b>15.2</b> | % | 0.10 | 0.10 | 1 |  | 04/01/20 09:04 |  |  |
|------------------|-------------|---|------|------|---|--|----------------|--|--|

**7196 Chromium, Hexavalent**

Analytical Method: EPA 7196A Preparation Method: EPA 3060A  
Pace Analytical Services - Indianapolis

|                      |      |       |     |     |   |                |                |            |  |
|----------------------|------|-------|-----|-----|---|----------------|----------------|------------|--|
| Chromium, Hexavalent | <2.3 | mg/kg | 2.3 | 2.3 | 1 | 04/17/20 09:08 | 04/18/20 10:04 | 18540-29-9 |  |
|----------------------|------|-------|-----|-----|---|----------------|----------------|------------|--|

**Trivalent Chromium Calculation**

Analytical Method: Trivalent Chromium Calculation  
Pace Analytical Services - Indianapolis

|                     |             |       |     |  |   |  |                |            |  |
|---------------------|-------------|-------|-----|--|---|--|----------------|------------|--|
| Chromium, Trivalent | <b>17.7</b> | mg/kg | 1.0 |  | 1 |  | 04/23/20 07:38 | 16065-83-1 |  |
|---------------------|-------------|-------|-----|--|---|--|----------------|------------|--|

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: Trip Blank**      **Lab ID: 50253160028**      Collected: 03/23/20 08:30      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "wet-weight" basis*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Acetone                        | <1000   | ug/kg  | 1000 | 1000 | 1  |          | 04/04/20 01:16 | 67-64-1    |      |
| Acrylonitrile                  | <100    | ug/kg  | 100  | 100  | 1  |          | 04/04/20 01:16 | 107-13-1   |      |
| tert-Amyl methyl ether         | <250    | ug/kg  | 250  | 250  | 1  |          | 04/04/20 01:16 | 994-05-8   | N2   |
| Benzene                        | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:16 | 71-43-2    |      |
| Bromobenzene                   | <100    | ug/kg  | 100  | 100  | 1  |          | 04/04/20 01:16 | 108-86-1   |      |
| Bromochloromethane             | <25.0   | ug/kg  | 50.0 | 25.0 | 1  |          | 04/04/20 01:16 | 74-97-5    |      |
| Bromodichloromethane           | <100    | ug/kg  | 100  | 100  | 1  |          | 04/04/20 01:16 | 75-27-4    |      |
| Bromoform                      | <100    | ug/kg  | 100  | 100  | 1  |          | 04/04/20 01:16 | 75-25-2    |      |
| Bromomethane                   | <200    | ug/kg  | 200  | 200  | 1  |          | 04/04/20 01:16 | 74-83-9    | L1   |
| 2-Butanone (MEK)               | <750    | ug/kg  | 750  | 750  | 1  |          | 04/04/20 01:16 | 78-93-3    |      |
| tert-Butyl Alcohol             | <2500   | ug/kg  | 2500 | 2500 | 1  |          | 04/04/20 01:16 | 75-65-0    |      |
| n-Butylbenzene                 | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:16 | 104-51-8   |      |
| sec-Butylbenzene               | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:16 | 135-98-8   |      |
| tert-Butylbenzene              | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:16 | 98-06-6    |      |
| Carbon disulfide               | <250    | ug/kg  | 250  | 250  | 1  |          | 04/04/20 01:16 | 75-15-0    |      |
| Carbon tetrachloride           | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:16 | 56-23-5    |      |
| Chlorobenzene                  | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:16 | 108-90-7   |      |
| Chloroethane                   | <250    | ug/kg  | 250  | 250  | 1  |          | 04/04/20 01:16 | 75-00-3    |      |
| Chloroform                     | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:16 | 67-66-3    |      |
| Chloromethane                  | <250    | ug/kg  | 250  | 250  | 1  |          | 04/04/20 01:16 | 74-87-3    |      |
| Cyclohexane                    | <500    | ug/kg  | 500  | 500  | 1  |          | 04/04/20 01:16 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:16 | 96-12-8    |      |
| Dibromochloromethane           | <100    | ug/kg  | 100  | 100  | 1  |          | 04/04/20 01:16 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:16 | 106-93-4   |      |
| Dibromomethane                 | <250    | ug/kg  | 250  | 250  | 1  |          | 04/04/20 01:16 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <100    | ug/kg  | 100  | 100  | 1  |          | 04/04/20 01:16 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <100    | ug/kg  | 100  | 100  | 1  |          | 04/04/20 01:16 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <100    | ug/kg  | 100  | 100  | 1  |          | 04/04/20 01:16 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <100    | ug/kg  | 1000 | 100  | 1  |          | 04/04/20 01:16 | 110-57-6   |      |
| Dichlorodifluoromethane        | <250    | ug/kg  | 250  | 250  | 1  |          | 04/04/20 01:16 | 75-71-8    |      |
| 1,1-Dichloroethane             | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:16 | 75-34-3    |      |
| 1,2-Dichloroethane             | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:16 | 107-06-2   |      |
| 1,1-Dichloroethene             | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:16 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:16 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:16 | 156-60-5   |      |
| 1,2-Dichloropropane            | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:16 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <100    | ug/kg  | 100  | 100  | 1  |          | 04/04/20 01:16 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <100    | ug/kg  | 100  | 100  | 1  |          | 04/04/20 01:16 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <200    | ug/kg  | 200  | 200  | 1  |          | 04/04/20 01:16 | 60-29-7    |      |
| Diisopropyl ether              | <250    | ug/kg  | 250  | 250  | 1  |          | 04/04/20 01:16 | 108-20-3   | N2   |
| Ethylbenzene                   | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:16 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <250    | ug/kg  | 250  | 250  | 1  |          | 04/04/20 01:16 | 637-92-3   | N2   |
| Hexachloroethane               | <300    | ug/kg  | 300  | 300  | 1  |          | 04/04/20 01:16 | 67-72-1    | N2   |
| 2-Hexanone                     | <2500   | ug/kg  | 2500 | 2500 | 1  |          | 04/04/20 01:16 | 591-78-6   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: Trip Blank**      **Lab ID: 50253160028**      Collected: 03/23/20 08:30      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "wet-weight" basis*

| Parameters                     | Results | Units  | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|---------|--|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Iodomethane                    | <100    | ug/kg  | 1000   | 100  | 1  |          | 04/04/20 01:16 | 74-88-4     |      |
| Isopropylbenzene (Cumene)      | <250    | ug/kg  | 250    | 250  | 1  |          | 04/04/20 01:16 | 98-82-8     |      |
| p-Isopropyltoluene             | <25.0   | ug/kg  | 50.0   | 25.0 | 1  |          | 04/04/20 01:16 | 99-87-6     |      |
| Methylene Chloride             | <100    | ug/kg  | 100    | 100  | 1  |          | 04/04/20 01:16 | 75-09-2     |      |
| 2-Methylnaphthalene            | <330    | ug/kg  | 330    | 330  | 1  |          | 04/04/20 01:16 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)    | <2500   | ug/kg  | 2500   | 2500 | 1  |          | 04/04/20 01:16 | 108-10-1    |      |
| Methyl-tert-butyl ether        | <250    | ug/kg  | 250    | 250  | 1  |          | 04/04/20 01:16 | 1634-04-4   |      |
| Naphthalene                    | <330    | ug/kg  | 330    | 330  | 1  |          | 04/04/20 01:16 | 91-20-3     |      |
| n-Propylbenzene                | <100    | ug/kg  | 100    | 100  | 1  |          | 04/04/20 01:16 | 103-65-1    |      |
| Styrene                        | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 04/04/20 01:16 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane      | <100    | ug/kg  | 100    | 100  | 1  |          | 04/04/20 01:16 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane      | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 04/04/20 01:16 | 79-34-5     |      |
| Tetrachloroethene              | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 04/04/20 01:16 | 127-18-4    |      |
| Tetrahydrofuran                | <1000   | ug/kg  | 1000   | 1000 | 1  |          | 04/04/20 01:16 | 109-99-9    | N2   |
| Toluene                        | <100    | ug/kg  | 100    | 100  | 1  |          | 04/04/20 01:16 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene         | <250    | ug/kg  | 250    | 250  | 1  |          | 04/04/20 01:16 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene         | <250    | ug/kg  | 250    | 250  | 1  |          | 04/04/20 01:16 | 120-82-1    |      |
| 1,1,1-Trichloroethane          | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 04/04/20 01:16 | 71-55-6     |      |
| 1,1,2-Trichloroethane          | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 04/04/20 01:16 | 79-00-5     |      |
| Trichloroethene                | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 04/04/20 01:16 | 79-01-6     |      |
| Trichlorofluoromethane         | <100    | ug/kg  | 100    | 100  | 1  |          | 04/04/20 01:16 | 75-69-4     |      |
| 1,2,3-Trichloropropane         | <100    | ug/kg  | 100    | 100  | 1  |          | 04/04/20 01:16 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene         | <250    | ug/kg  | 250    | 250  | 1  |          | 04/04/20 01:16 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene         | <100    | ug/kg  | 100    | 100  | 1  |          | 04/04/20 01:16 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | <100    | ug/kg  | 100    | 100  | 1  |          | 04/04/20 01:16 | 108-67-8    |      |
| Vinyl chloride                 | <40.0   | ug/kg  | 40.0   | 40.0 | 1  |          | 04/04/20 01:16 | 75-01-4     |      |
| m&p-Xylene                     | <25.0   | ug/kg  | 50.0   | 25.0 | 1  |          | 04/04/20 01:16 | 179601-23-1 |      |
| o-Xylene                       | <25.0   | ug/kg  | 50.0   | 25.0 | 1  |          | 04/04/20 01:16 | 95-47-6     |      |
| <b>Surrogates</b>              |         |  |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)       | 101     | %  | 62-137 |      | 1  |          | 04/04/20 01:16 | 1868-53-7   |      |
| Toluene-d8 (S)                 | 106     | %  | 64-139 |      | 1  |          | 04/04/20 01:16 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)       | 102     | %  | 60-142 |      | 1  |          | 04/04/20 01:16 | 460-00-4    |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale

Pace Project No.: 50253160

Sample: Field Blank Lab ID: 50253160029 Collected: 03/23/20 11:00 Received: 03/27/20 08:10 Matrix: Solid

Results reported on a "wet-weight" basis

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Acetone                        | <1000   | ug/kg  | 1000 | 1000 | 1  |          | 04/04/20 01:49 | 67-64-1    |      |
| Acrylonitrile                  | <100    | ug/kg  | 100  | 100  | 1  |          | 04/04/20 01:49 | 107-13-1   |      |
| tert-Amyl methyl ether         | <250    | ug/kg  | 250  | 250  | 1  |          | 04/04/20 01:49 | 994-05-8   | N2   |
| Benzene                        | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:49 | 71-43-2    |      |
| Bromobenzene                   | <100    | ug/kg  | 100  | 100  | 1  |          | 04/04/20 01:49 | 108-86-1   |      |
| Bromochloromethane             | <25.0   | ug/kg  | 50.0 | 25.0 | 1  |          | 04/04/20 01:49 | 74-97-5    |      |
| Bromodichloromethane           | <100    | ug/kg  | 100  | 100  | 1  |          | 04/04/20 01:49 | 75-27-4    |      |
| Bromoform                      | <100    | ug/kg  | 100  | 100  | 1  |          | 04/04/20 01:49 | 75-25-2    |      |
| Bromomethane                   | <200    | ug/kg  | 200  | 200  | 1  |          | 04/04/20 01:49 | 74-83-9    | L1   |
| 2-Butanone (MEK)               | <750    | ug/kg  | 750  | 750  | 1  |          | 04/04/20 01:49 | 78-93-3    |      |
| tert-Butyl Alcohol             | <2500   | ug/kg  | 2500 | 2500 | 1  |          | 04/04/20 01:49 | 75-65-0    |      |
| n-Butylbenzene                 | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:49 | 104-51-8   |      |
| sec-Butylbenzene               | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:49 | 135-98-8   |      |
| tert-Butylbenzene              | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:49 | 98-06-6    |      |
| Carbon disulfide               | <250    | ug/kg  | 250  | 250  | 1  |          | 04/04/20 01:49 | 75-15-0    |      |
| Carbon tetrachloride           | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:49 | 56-23-5    |      |
| Chlorobenzene                  | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:49 | 108-90-7   |      |
| Chloroethane                   | <250    | ug/kg  | 250  | 250  | 1  |          | 04/04/20 01:49 | 75-00-3    |      |
| Chloroform                     | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:49 | 67-66-3    |      |
| Chloromethane                  | <250    | ug/kg  | 250  | 250  | 1  |          | 04/04/20 01:49 | 74-87-3    |      |
| Cyclohexane                    | <500    | ug/kg  | 500  | 500  | 1  |          | 04/04/20 01:49 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:49 | 96-12-8    |      |
| Dibromochloromethane           | <100    | ug/kg  | 100  | 100  | 1  |          | 04/04/20 01:49 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:49 | 106-93-4   |      |
| Dibromomethane                 | <250    | ug/kg  | 250  | 250  | 1  |          | 04/04/20 01:49 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <100    | ug/kg  | 100  | 100  | 1  |          | 04/04/20 01:49 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <100    | ug/kg  | 100  | 100  | 1  |          | 04/04/20 01:49 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <100    | ug/kg  | 100  | 100  | 1  |          | 04/04/20 01:49 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <100    | ug/kg  | 1000 | 100  | 1  |          | 04/04/20 01:49 | 110-57-6   |      |
| Dichlorodifluoromethane        | <250    | ug/kg  | 250  | 250  | 1  |          | 04/04/20 01:49 | 75-71-8    |      |
| 1,1-Dichloroethane             | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:49 | 75-34-3    |      |
| 1,2-Dichloroethane             | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:49 | 107-06-2   |      |
| 1,1-Dichloroethene             | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:49 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:49 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:49 | 156-60-5   |      |
| 1,2-Dichloropropane            | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:49 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <100    | ug/kg  | 100  | 100  | 1  |          | 04/04/20 01:49 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <100    | ug/kg  | 100  | 100  | 1  |          | 04/04/20 01:49 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <200    | ug/kg  | 200  | 200  | 1  |          | 04/04/20 01:49 | 60-29-7    |      |
| Diisopropyl ether              | <250    | ug/kg  | 250  | 250  | 1  |          | 04/04/20 01:49 | 108-20-3   | N2   |
| Ethylbenzene                   | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/04/20 01:49 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <250    | ug/kg  | 250  | 250  | 1  |          | 04/04/20 01:49 | 637-92-3   | N2   |
| Hexachloroethane               | <300    | ug/kg  | 300  | 300  | 1  |          | 04/04/20 01:49 | 67-72-1    | N2   |
| 2-Hexanone                     | <2500   | ug/kg  | 2500 | 2500 | 1  |          | 04/04/20 01:49 | 591-78-6   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

**Sample: Field Blank**      **Lab ID: 50253160029**      Collected: 03/23/20 11:00      Received: 03/27/20 08:10      Matrix: Solid

*Results reported on a "wet-weight" basis*

| Parameters                     | Results | Units  | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|---------|--|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Iodomethane                    | <100    | ug/kg  | 1000   | 100  | 1  |          | 04/04/20 01:49 | 74-88-4     |      |
| Isopropylbenzene (Cumene)      | <250    | ug/kg  | 250    | 250  | 1  |          | 04/04/20 01:49 | 98-82-8     |      |
| p-Isopropyltoluene             | <25.0   | ug/kg  | 50.0   | 25.0 | 1  |          | 04/04/20 01:49 | 99-87-6     |      |
| Methylene Chloride             | <100    | ug/kg  | 100    | 100  | 1  |          | 04/04/20 01:49 | 75-09-2     |      |
| 2-Methylnaphthalene            | <330    | ug/kg  | 330    | 330  | 1  |          | 04/04/20 01:49 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)    | <2500   | ug/kg  | 2500   | 2500 | 1  |          | 04/04/20 01:49 | 108-10-1    |      |
| Methyl-tert-butyl ether        | <250    | ug/kg  | 250    | 250  | 1  |          | 04/04/20 01:49 | 1634-04-4   |      |
| Naphthalene                    | <330    | ug/kg  | 330    | 330  | 1  |          | 04/04/20 01:49 | 91-20-3     |      |
| n-Propylbenzene                | <100    | ug/kg  | 100    | 100  | 1  |          | 04/04/20 01:49 | 103-65-1    |      |
| Styrene                        | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 04/04/20 01:49 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane      | <100    | ug/kg  | 100    | 100  | 1  |          | 04/04/20 01:49 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane      | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 04/04/20 01:49 | 79-34-5     |      |
| Tetrachloroethene              | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 04/04/20 01:49 | 127-18-4    |      |
| Tetrahydrofuran                | <1000   | ug/kg  | 1000   | 1000 | 1  |          | 04/04/20 01:49 | 109-99-9    | N2   |
| Toluene                        | <100    | ug/kg  | 100    | 100  | 1  |          | 04/04/20 01:49 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene         | <250    | ug/kg  | 250    | 250  | 1  |          | 04/04/20 01:49 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene         | <250    | ug/kg  | 250    | 250  | 1  |          | 04/04/20 01:49 | 120-82-1    |      |
| 1,1,1-Trichloroethane          | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 04/04/20 01:49 | 71-55-6     |      |
| 1,1,2-Trichloroethane          | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 04/04/20 01:49 | 79-00-5     |      |
| Trichloroethene                | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 04/04/20 01:49 | 79-01-6     |      |
| Trichlorofluoromethane         | <100    | ug/kg  | 100    | 100  | 1  |          | 04/04/20 01:49 | 75-69-4     |      |
| 1,2,3-Trichloropropane         | <100    | ug/kg  | 100    | 100  | 1  |          | 04/04/20 01:49 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene         | <250    | ug/kg  | 250    | 250  | 1  |          | 04/04/20 01:49 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene         | <100    | ug/kg  | 100    | 100  | 1  |          | 04/04/20 01:49 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | <100    | ug/kg  | 100    | 100  | 1  |          | 04/04/20 01:49 | 108-67-8    |      |
| Vinyl chloride                 | <40.0   | ug/kg  | 40.0   | 40.0 | 1  |          | 04/04/20 01:49 | 75-01-4     |      |
| m&p-Xylene                     | <25.0   | ug/kg  | 50.0   | 25.0 | 1  |          | 04/04/20 01:49 | 179601-23-1 |      |
| o-Xylene                       | <25.0   | ug/kg  | 50.0   | 25.0 | 1  |          | 04/04/20 01:49 | 95-47-6     |      |
| <b>Surrogates</b>              |         |  |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)       | 98      | %  | 62-137 |      | 1  |          | 04/04/20 01:49 | 1868-53-7   |      |
| Toluene-d8 (S)                 | 115     | %  | 64-139 |      | 1  |          | 04/04/20 01:49 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)       | 104     | %  | 60-142 |      | 1  |          | 04/04/20 01:49 | 460-00-4    |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

QC Batch: 554715 Analysis Method: EPA 8015 Alcohol-Glycol  
QC Batch Method: EPA 8015 Alcohol-Glycol Analysis Description: EPA 8015 Modified  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50253160013, 50253160014, 50253160015, 50253160016, 50253160017, 50253160018, 50253160019, 50253160020, 50253160021, 50253160022, 50253160023, 50253160024, 50253160025, 50253160026, 50253160027

METHOD BLANK: 2558031 Matrix: Solid  
Associated Lab Samples: 50253160013, 50253160014, 50253160015, 50253160016, 50253160017, 50253160018, 50253160019, 50253160020, 50253160021, 50253160022, 50253160023, 50253160024, 50253160025, 50253160026, 50253160027

| Parameter | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Ethanol   | ug/kg | <2500        | 2500            | 2500 | 03/30/20 22:02 |            |
| Methanol  | ug/kg | <4400        | 4400            | 4400 | 03/30/20 22:02 |            |
| n-Butanol | ug/kg | <4400        | 4400            | 4400 | 03/30/20 22:02 |            |

LABORATORY CONTROL SAMPLE: 2558032

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Ethanol   | ug/kg | 100000      | 95500      | 96        | 79-113       |            |
| Methanol  | ug/kg | 100000      | 94400      | 94        | 75-111       |            |
| n-Butanol | ug/kg | 100000      | 91500      | 91        | 80-115       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2558033 2558034

| Parameter | Units | 50253160027 |                 | 2558034   |                 | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-----------------|-----------|-----------------|----------|-----------|--------------|-----|---------|------|
|           |       | MS Result   | MSD Spike Conc. | MS Result | MSD Spike Conc. |          |           |              |     |         |      |
| Ethanol   | ug/kg | <2950       | 118000          | 104000    | 105000          | 88       | 89        | 46-120       | 0   | 20      |      |
| Methanol  | ug/kg | <5190       | 118000          | 98300     | 102000          | 83       | 86        | 42-119       | 3   | 20      |      |
| n-Butanol | ug/kg | <5190       | 118000          | 97500     | 99200           | 83       | 84        | 10-142       | 2   | 20      |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale

Pace Project No.: 50253160

|                  |          |                       |   |
|------------------|----------|-----------------------|---|
| QC Batch:        | 555036   | Analysis Method:      | EPA 7471                                |
| QC Batch Method: | EPA 7471 | Analysis Description: | 7471 Mercury                            |
|                  |          | Laboratory:           | Pace Analytical Services - Indianapolis |

Associated Lab Samples: 50253160001, 50253160002, 50253160003, 50253160004, 50253160005, 50253160006, 50253160007, 50253160008

METHOD BLANK: 2559577 Matrix: Solid

Associated Lab Samples: 50253160001, 50253160002, 50253160003, 50253160004, 50253160005, 50253160006, 50253160007, 50253160008

| Parameter | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Mercury   | ug/kg | <59.2        | 106             | 59.2 | 04/06/20 08:06 |            |

LABORATORY CONTROL SAMPLE: 2559578

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury   | ug/kg | 519         | 476        | 92        | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2559579 2559580

| Parameter | Units | 50253160002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Mercury   | ug/kg | 70.6J              | 553            | 527             | 547       | 524        | 86       | 86        | 75-125       | 4   | 20      |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale

Pace Project No.: 50253160

QC Batch: 555037

Analysis Method: EPA 7471

QC Batch Method: EPA 7471

Analysis Description: 7471 Mercury

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50253160009, 50253160010, 50253160011, 50253160012, 50253160020, 50253160021, 50253160022, 50253160023, 50253160024, 50253160025, 50253160026, 50253160027

METHOD BLANK: 2559581

Matrix: Solid

Associated Lab Samples: 50253160009, 50253160010, 50253160011, 50253160012, 50253160020, 50253160021, 50253160022, 50253160023, 50253160024, 50253160025, 50253160026, 50253160027

| Parameter | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Mercury   | ug/kg | <57.1        | 102             | 57.1 | 04/06/20 08:58 |            |

LABORATORY CONTROL SAMPLE: 2559582

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury   | ug/kg | 507         | 451        | 89        | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2559583 2559584

| Parameter | Units | 50252963002 Result | MS          |             | MSD    |        | MS    |       | MSD    |   | % Rec Limits | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|--------|--------|-------|-------|--------|---|--------------|---------|------|
|           |       |                    | Spike Conc. | Spike Conc. | Result | Result | % Rec | % Rec |        |   |              |         |      |
| Mercury   | ug/kg | ND                 | 655         | 661         | 606    | 637    | 88    | 92    | 75-125 | 5 | 20           |         |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

|                  |          |                       |   |
|------------------|----------|-----------------------|---|
| QC Batch:        | 554464   | Analysis Method:      | EPA 6010                                |
| QC Batch Method: | EPA 3050 | Analysis Description: | 6010 MET                                |
|                  |          | Laboratory:           | Pace Analytical Services - Indianapolis |

Associated Lab Samples: 50253160001, 50253160002, 50253160003, 50253160004, 50253160005, 50253160006, 50253160007, 50253160008, 50253160009, 50253160010, 50253160011, 50253160012, 50253160020, 50253160021, 50253160022, 50253160023, 50253160024, 50253160025, 50253160026, 50253160027

METHOD BLANK: 2557029 Matrix: Solid  
Associated Lab Samples: 50253160001, 50253160002, 50253160003, 50253160004, 50253160005, 50253160006, 50253160007, 50253160008, 50253160009, 50253160010, 50253160011, 50253160012, 50253160020, 50253160021, 50253160022, 50253160023, 50253160024, 50253160025, 50253160026, 50253160027

| Parameter | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Arsenic   | ug/kg | <2000        | 2000            | 2000  | 04/05/20 13:42 |            |
| Barium    | ug/kg | <1000        | 1000            | 1000  | 04/05/20 13:42 |            |
| Chromium  | ug/kg | <2000        | 2000            | 2000  | 04/05/20 13:42 |            |
| Lead      | ug/kg | <10000       | 10000           | 10000 | 04/05/20 13:42 |            |

LABORATORY CONTROL SAMPLE: 2557030

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic   | ug/kg | 50000       | 52200      | 104       | 80-120       |            |
| Barium    | ug/kg | 50000       | 54100      | 108       | 80-120       |            |
| Chromium  | ug/kg | 50000       | 51800      | 104       | 80-120       |            |
| Lead      | ug/kg | 50000       | 51500      | 103       | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2557031 2557032

| Parameter | Units | MS                 |             | MSD         |        | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|--------|----------|-----------|--------------|--------|---------|------|
|           |       | 50253160001 Result | Spike Conc. | Spike Conc. | Result |          |           |              |        |         |      |
| Arsenic   | ug/kg | <2110              | 53400       | 53600       | 55100  | 56300    | 101       | 103          | 75-125 | 2       | 20   |
| Barium    | ug/kg | 13300              | 53400       | 53600       | 69500  | 70000    | 105       | 106          | 75-125 | 1       | 20   |
| Chromium  | ug/kg | 5920               | 53400       | 53600       | 59000  | 59100    | 99        | 99           | 75-125 | 0       | 20   |
| Lead      | ug/kg | <10500             | 53400       | 53600       | 54900  | 55000    | 96        | 96           | 75-125 | 0       | 20   |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

|                  |           |                       |   |
|------------------|-----------|-----------------------|---|
| QC Batch:        | 554556    | Analysis Method:      | EPA 6020                                |
| QC Batch Method: | EPA 3050B | Analysis Description: | 6020 MET                                |
|                  |           | Laboratory:           | Pace Analytical Services - Indianapolis |

Associated Lab Samples: 50253160001, 50253160002, 50253160003, 50253160004, 50253160005, 50253160006, 50253160007, 50253160008, 50253160009, 50253160010, 50253160011, 50253160012, 50253160020, 50253160021, 50253160022, 50253160023, 50253160024, 50253160025, 50253160026, 50253160027

METHOD BLANK: 2557353 Matrix: Solid  
Associated Lab Samples: 50253160001, 50253160002, 50253160003, 50253160004, 50253160005, 50253160006, 50253160007, 50253160008, 50253160009, 50253160010, 50253160011, 50253160012, 50253160020, 50253160021, 50253160022, 50253160023, 50253160024, 50253160025, 50253160026, 50253160027

| Parameter | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Cadmium   | ug/kg | <193         | 193             | 193  | 03/31/20 07:00 |            |
| Selenium  | ug/kg | <193         | 193             | 193  | 03/31/20 07:00 |            |
| Silver    | ug/kg | <96.7        | 96.7            | 96.7 | 03/31/20 07:00 |            |

LABORATORY CONTROL SAMPLE: 2557354

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Cadmium   | ug/kg | 3710        | 3460       | 93        | 80-120       |            |
| Selenium  | ug/kg | 3710        | 3380       | 91        | 80-120       |            |
| Silver    | ug/kg | 3710        | 3640       | 98        | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2557355 2557356

| Parameter | Units | MS                 |             | MSD         |        | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|--------|----------|-----------|--------------|--------|---------|------|
|           |       | 50253160001 Result | Spike Conc. | Spike Conc. | Result |          |           |              |        |         |      |
| Cadmium   | ug/kg | <210               | 4010        | 4210        | 3650   | 3880     | 89        | 90           | 75-125 | 6       | 20   |
| Selenium  | ug/kg | <1050              | 4010        | 4210        | 3460   | 3720     | 83        | 85           | 75-125 | 7       | 20   |
| Silver    | ug/kg | <105               | 4010        | 4210        | 3720   | 3960     | 92        | 94           | 75-125 | 6       | 20   |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

|                  |          |                       |   |
|------------------|----------|-----------------------|---|
| QC Batch:        | 554837   | Analysis Method:      | EPA 8260                                |
| QC Batch Method: | EPA 8260 | Analysis Description: | 8260 MSV 5035 Volatile Organics         |
|                  |          | Laboratory:           | Pace Analytical Services - Indianapolis |

Associated Lab Samples: 50253160013, 50253160014, 50253160015, 50253160016, 50253160017, 50253160018, 50253160019, 50253160020, 50253160021, 50253160022, 50253160023, 50253160024, 50253160025, 50253160026, 50253160027, 50253160028, 50253160029

METHOD BLANK: 2558476 Matrix: Solid  
Associated Lab Samples: 50253160013, 50253160014, 50253160015, 50253160016, 50253160017, 50253160018, 50253160019, 50253160020, 50253160021, 50253160022, 50253160023, 50253160024, 50253160025, 50253160026, 50253160027, 50253160028, 50253160029

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/kg | <100         | 100             | 100  | 04/03/20 16:33 |            |
| 1,1,1-Trichloroethane       | ug/kg | <50.0        | 50.0            | 50.0 | 04/03/20 16:33 |            |
| 1,1,2,2-Tetrachloroethane   | ug/kg | <50.0        | 50.0            | 50.0 | 04/03/20 16:33 |            |
| 1,1,2-Trichloroethane       | ug/kg | <50.0        | 50.0            | 50.0 | 04/03/20 16:33 |            |
| 1,1-Dichloroethane          | ug/kg | <50.0        | 50.0            | 50.0 | 04/03/20 16:33 |            |
| 1,1-Dichloroethene          | ug/kg | <50.0        | 50.0            | 50.0 | 04/03/20 16:33 |            |
| 1,2,3-Trichlorobenzene      | ug/kg | <250         | 250             | 250  | 04/03/20 16:33 |            |
| 1,2,3-Trichloropropane      | ug/kg | <100         | 100             | 100  | 04/03/20 16:33 |            |
| 1,2,3-Trimethylbenzene      | ug/kg | <250         | 250             | 250  | 04/03/20 16:33 | N2         |
| 1,2,4-Trichlorobenzene      | ug/kg | <250         | 250             | 250  | 04/03/20 16:33 |            |
| 1,2,4-Trimethylbenzene      | ug/kg | <100         | 100             | 100  | 04/03/20 16:33 |            |
| 1,2-Dibromo-3-chloropropane | ug/kg | <50.0        | 50.0            | 50.0 | 04/03/20 16:33 |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | <50.0        | 50.0            | 50.0 | 04/03/20 16:33 |            |
| 1,2-Dichlorobenzene         | ug/kg | <100         | 100             | 100  | 04/03/20 16:33 |            |
| 1,2-Dichloroethane          | ug/kg | <50.0        | 50.0            | 50.0 | 04/03/20 16:33 |            |
| 1,2-Dichloropropane         | ug/kg | <50.0        | 50.0            | 50.0 | 04/03/20 16:33 |            |
| 1,3,5-Trimethylbenzene      | ug/kg | <100         | 100             | 100  | 04/03/20 16:33 |            |
| 1,3-Dichlorobenzene         | ug/kg | <100         | 100             | 100  | 04/03/20 16:33 |            |
| 1,4-Dichlorobenzene         | ug/kg | <100         | 100             | 100  | 04/03/20 16:33 |            |
| 2-Butanone (MEK)            | ug/kg | <750         | 750             | 750  | 04/03/20 16:33 |            |
| 2-Hexanone                  | ug/kg | <2500        | 2500            | 2500 | 04/03/20 16:33 |            |
| 2-Methylnaphthalene         | ug/kg | <330         | 330             | 330  | 04/03/20 16:33 | N2         |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | <2500        | 2500            | 2500 | 04/03/20 16:33 |            |
| Acetone                     | ug/kg | <1000        | 1000            | 1000 | 04/03/20 16:33 |            |
| Acrylonitrile               | ug/kg | <100         | 100             | 100  | 04/03/20 16:33 |            |
| Benzene                     | ug/kg | <50.0        | 50.0            | 50.0 | 04/03/20 16:33 |            |
| Bromobenzene                | ug/kg | <100         | 100             | 100  | 04/03/20 16:33 |            |
| Bromochloromethane          | ug/kg | <25.0        | 50.0            | 25.0 | 04/03/20 16:33 |            |
| Bromodichloromethane        | ug/kg | <100         | 100             | 100  | 04/03/20 16:33 |            |
| Bromoform                   | ug/kg | <100         | 100             | 100  | 04/03/20 16:33 |            |
| Bromomethane                | ug/kg | <200         | 200             | 200  | 04/03/20 16:33 |            |
| Carbon disulfide            | ug/kg | <250         | 250             | 250  | 04/03/20 16:33 |            |
| Carbon tetrachloride        | ug/kg | <50.0        | 50.0            | 50.0 | 04/03/20 16:33 |            |
| Chlorobenzene               | ug/kg | <50.0        | 50.0            | 50.0 | 04/03/20 16:33 |            |
| Chloroethane                | ug/kg | <250         | 250             | 250  | 04/03/20 16:33 |            |
| Chloroform                  | ug/kg | <50.0        | 50.0            | 50.0 | 04/03/20 16:33 |            |
| Chloromethane               | ug/kg | <250         | 250             | 250  | 04/03/20 16:33 |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale

Pace Project No.: 50253160

METHOD BLANK: 2558476

Matrix: Solid

Associated Lab Samples: 50253160013, 50253160014, 50253160015, 50253160016, 50253160017, 50253160018, 50253160019, 50253160020, 50253160021, 50253160022, 50253160023, 50253160024, 50253160025, 50253160026, 50253160027, 50253160028, 50253160029

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| cis-1,2-Dichloroethene      | ug/kg | <50.0        | 50.0            | 50.0 | 04/03/20 16:33 |            |
| cis-1,3-Dichloropropene     | ug/kg | <100         | 100             | 100  | 04/03/20 16:33 |            |
| Cyclohexane                 | ug/kg | <500         | 500             | 500  | 04/03/20 16:33 | N2         |
| Dibromochloromethane        | ug/kg | <100         | 100             | 100  | 04/03/20 16:33 |            |
| Dibromomethane              | ug/kg | <250         | 250             | 250  | 04/03/20 16:33 |            |
| Dichlorodifluoromethane     | ug/kg | <250         | 250             | 250  | 04/03/20 16:33 |            |
| Diethyl ether (Ethyl ether) | ug/kg | <200         | 200             | 200  | 04/03/20 16:33 |            |
| Diisopropyl ether           | ug/kg | <250         | 250             | 250  | 04/03/20 16:33 | N2         |
| Ethyl-tert-butyl ether      | ug/kg | <250         | 250             | 250  | 04/03/20 16:33 | N2         |
| Ethylbenzene                | ug/kg | <50.0        | 50.0            | 50.0 | 04/03/20 16:33 |            |
| Hexachloroethane            | ug/kg | <300         | 300             | 300  | 04/03/20 16:33 | N2         |
| Iodomethane                 | ug/kg | <100         | 1000            | 100  | 04/03/20 16:33 |            |
| Isopropylbenzene (Cumene)   | ug/kg | <250         | 250             | 250  | 04/03/20 16:33 |            |
| m&p-Xylene                  | ug/kg | <25.0        | 50.0            | 25.0 | 04/03/20 16:33 |            |
| Methyl-tert-butyl ether     | ug/kg | <250         | 250             | 250  | 04/03/20 16:33 |            |
| Methylene Chloride          | ug/kg | <100         | 100             | 100  | 04/03/20 16:33 |            |
| n-Butylbenzene              | ug/kg | <50.0        | 50.0            | 50.0 | 04/03/20 16:33 |            |
| n-Propylbenzene             | ug/kg | <100         | 100             | 100  | 04/03/20 16:33 |            |
| Naphthalene                 | ug/kg | <330         | 330             | 330  | 04/03/20 16:33 |            |
| o-Xylene                    | ug/kg | <25.0        | 50.0            | 25.0 | 04/03/20 16:33 |            |
| p-Isopropyltoluene          | ug/kg | <25.0        | 50.0            | 25.0 | 04/03/20 16:33 |            |
| sec-Butylbenzene            | ug/kg | <50.0        | 50.0            | 50.0 | 04/03/20 16:33 |            |
| Styrene                     | ug/kg | <50.0        | 50.0            | 50.0 | 04/03/20 16:33 |            |
| tert-Amylmethyl ether       | ug/kg | <250         | 250             | 250  | 04/03/20 16:33 | N2         |
| tert-Butyl Alcohol          | ug/kg | <2500        | 2500            | 2500 | 04/03/20 16:33 |            |
| tert-Butylbenzene           | ug/kg | <50.0        | 50.0            | 50.0 | 04/03/20 16:33 |            |
| Tetrachloroethene           | ug/kg | <50.0        | 50.0            | 50.0 | 04/03/20 16:33 |            |
| Tetrahydrofuran             | ug/kg | <1000        | 1000            | 1000 | 04/03/20 16:33 | N2         |
| Toluene                     | ug/kg | <100         | 100             | 100  | 04/03/20 16:33 |            |
| trans-1,2-Dichloroethene    | ug/kg | <50.0        | 50.0            | 50.0 | 04/03/20 16:33 |            |
| trans-1,3-Dichloropropene   | ug/kg | <100         | 100             | 100  | 04/03/20 16:33 |            |
| trans-1,4-Dichloro-2-butene | ug/kg | <100         | 1000            | 100  | 04/03/20 16:33 |            |
| Trichloroethene             | ug/kg | <50.0        | 50.0            | 50.0 | 04/03/20 16:33 |            |
| Trichlorofluoromethane      | ug/kg | <100         | 100             | 100  | 04/03/20 16:33 |            |
| Vinyl chloride              | ug/kg | <40.0        | 40.0            | 40.0 | 04/03/20 16:33 |            |
| 4-Bromofluorobenzene (S)    | %     | 92           | 60-142          |      | 04/03/20 16:33 |            |
| Dibromofluoromethane (S)    | %     | 102          | 62-137          |      | 04/03/20 16:33 |            |
| Toluene-d8 (S)              | %     | 104          | 64-139          |      | 04/03/20 16:33 |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

LABORATORY CONTROL SAMPLE: 2558477

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/kg | 100         | 103        | 103       | 82-119       |            |
| 1,1,1-Trichloroethane       | ug/kg | 100         | 109        | 109       | 82-125       |            |
| 1,1,2,2-Tetrachloroethane   | ug/kg | 100         | 83.3       | 83        | 54-137       |            |
| 1,1,2-Trichloroethane       | ug/kg | 100         | 96.1       | 96        | 77-122       |            |
| 1,1-Dichloroethane          | ug/kg | 100         | 112        | 112       | 68-126       |            |
| 1,1-Dichloroethene          | ug/kg | 100         | 108        | 108       | 77-126       |            |
| 1,2,3-Trichlorobenzene      | ug/kg | 100         | <250       | 109       | 72-126       |            |
| 1,2,3-Trichloropropane      | ug/kg | 100         | <100       | 94        | 66-125       |            |
| 1,2,4-Trichlorobenzene      | ug/kg | 100         | <250       | 111       | 79-124       |            |
| 1,2,4-Trimethylbenzene      | ug/kg | 100         | 103        | 103       | 78-125       |            |
| 1,2-Dibromo-3-chloropropane | ug/kg | 100         | 96.3       | 96        | 64-133       |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | 100         | 103        | 103       | 78-124       |            |
| 1,2-Dichlorobenzene         | ug/kg | 100         | <100       | 99        | 79-117       |            |
| 1,2-Dichloroethane          | ug/kg | 100         | 95.5       | 96        | 74-116       |            |
| 1,2-Dichloropropane         | ug/kg | 100         | 106        | 106       | 70-142       |            |
| 1,3,5-Trimethylbenzene      | ug/kg | 100         | 101        | 101       | 76-122       |            |
| 1,3-Dichlorobenzene         | ug/kg | 100         | 102        | 102       | 80-118       |            |
| 1,4-Dichlorobenzene         | ug/kg | 100         | <100       | 99        | 76-115       |            |
| 2-Butanone (MEK)            | ug/kg | 500         | <750       | 85        | 65-126       |            |
| 2-Hexanone                  | ug/kg | 500         | <2500      | 91        | 54-141       |            |
| 2-Methylnaphthalene         | ug/kg | 100         | <330       | 96        | 47-148       | N2         |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | 500         | <2500      | 90        | 60-133       |            |
| Acetone                     | ug/kg | 500         | <1000      | 84        | 49-139       |            |
| Acrylonitrile               | ug/kg | 400         | 372        | 93        | 66-133       |            |
| Benzene                     | ug/kg | 100         | 104        | 104       | 71-126       |            |
| Bromobenzene                | ug/kg | 100         | 104        | 104       | 77-119       |            |
| Bromochloromethane          | ug/kg | 100         | 93.5       | 94        | 60-117       |            |
| Bromodichloromethane        | ug/kg | 100         | <100       | 96        | 79-122       |            |
| Bromoform                   | ug/kg | 100         | <100       | 91        | 64-121       |            |
| Bromomethane                | ug/kg | 100         | 219        | 219       | 10-200       | L1         |
| Carbon disulfide            | ug/kg | 100         | <250       | 109       | 54-129       |            |
| Carbon tetrachloride        | ug/kg | 100         | 109        | 109       | 78-120       |            |
| Chlorobenzene               | ug/kg | 100         | 102        | 102       | 81-117       |            |
| Chloroethane                | ug/kg | 100         | <250       | 93        | 54-134       |            |
| Chloroform                  | ug/kg | 100         | 101        | 101       | 80-119       |            |
| Chloromethane               | ug/kg | 100         | <250       | 110       | 31-118       |            |
| cis-1,2-Dichloroethene      | ug/kg | 100         | 101        | 101       | 77-125       |            |
| cis-1,3-Dichloropropene     | ug/kg | 100         | 108        | 108       | 74-133       |            |
| Cyclohexane                 | ug/kg | 100         | <500       | 105       | 49-128       | N2         |
| Dibromochloromethane        | ug/kg | 100         | 103        | 103       | 78-124       |            |
| Dibromomethane              | ug/kg | 100         | <250       | 99        | 73-129       |            |
| Dichlorodifluoromethane     | ug/kg | 100         | <250       | 118       | 32-173       |            |
| Diethyl ether (Ethyl ether) | ug/kg | 100         | <200       | 100       | 50-150       |            |
| Ethylbenzene                | ug/kg | 100         | 105        | 105       | 74-127       |            |
| Iodomethane                 | ug/kg | 200         | 198J       | 99        | 10-200       |            |
| Isopropylbenzene (Cumene)   | ug/kg | 100         | <250       | 113       | 85-121       |            |
| m&p-Xylene                  | ug/kg | 200         | 216        | 108       | 72-130       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

LABORATORY CONTROL SAMPLE: 2558477

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Methyl-tert-butyl ether     | ug/kg | 100         | <250       | 103       | 78-135       |            |
| Methylene Chloride          | ug/kg | 100         | 101        | 101       | 73-119       |            |
| n-Butylbenzene              | ug/kg | 100         | 104        | 104       | 69-126       |            |
| n-Propylbenzene             | ug/kg | 100         | <100       | 99        | 73-124       |            |
| Naphthalene                 | ug/kg | 100         | <330       | 98        | 71-128       |            |
| o-Xylene                    | ug/kg | 100         | 108        | 108       | 74-128       |            |
| p-Isopropyltoluene          | ug/kg | 100         | 107        | 107       | 74-124       |            |
| sec-Butylbenzene            | ug/kg | 100         | 102        | 102       | 72-124       |            |
| Styrene                     | ug/kg | 100         | 109        | 109       | 83-121       |            |
| tert-Butyl Alcohol          | ug/kg | 200         | <2500      | 75        | 50-150       |            |
| tert-Butylbenzene           | ug/kg | 100         | 78.5       | 78        | 54-104       |            |
| Tetrachloroethene           | ug/kg | 100         | 108        | 108       | 74-120       |            |
| Tetrahydrofuran             | ug/kg | 100         | <1000      | 100       | 53-135       | N2         |
| Toluene                     | ug/kg | 100         | <100       | 100       | 71-124       |            |
| trans-1,2-Dichloroethene    | ug/kg | 100         | 111        | 111       | 73-131       |            |
| trans-1,3-Dichloropropene   | ug/kg | 100         | 101        | 101       | 68-128       |            |
| trans-1,4-Dichloro-2-butene | ug/kg | 400         | 366J       | 91        | 22-132       |            |
| Trichloroethene             | ug/kg | 100         | 104        | 104       | 75-121       |            |
| Trichlorofluoromethane      | ug/kg | 100         | 117        | 117       | 64-135       |            |
| Vinyl chloride              | ug/kg | 100         | 105        | 105       | 51-137       |            |
| 4-Bromofluorobenzene (S)    | %     |             |            | 106       | 60-142       |            |
| Dibromofluoromethane (S)    | %     |             |            | 100       | 62-137       |            |
| Toluene-d8 (S)              | %     |             |            | 98        | 64-139       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

QC Batch: 555383 Analysis Method: EPA 8270 by SIM  
QC Batch Method: EPA 3546 Analysis Description: 8270 MSSV PAH by SIM  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50253160013, 50253160014, 50253160015, 50253160016, 50253160017, 50253160018, 50253160019, 50253160020, 50253160021, 50253160023, 50253160024, 50253160025, 50253160026, 50253160027

METHOD BLANK: 2561405 Matrix: Solid  
Associated Lab Samples: 50253160013, 50253160014, 50253160015, 50253160016, 50253160017, 50253160018, 50253160019, 50253160020, 50253160021, 50253160023, 50253160024, 50253160025, 50253160026, 50253160027

| Parameter              | Units | Blank Result | Reporting Limit | MDL | Analyzed       | Qualifiers |
|------------------------|-------|--------------|-----------------|-----|----------------|------------|
| 2-Methylnaphthalene    | ug/kg | <327         | 327             | 327 | 04/03/20 15:31 |            |
| Acenaphthene           | ug/kg | <327         | 327             | 327 | 04/03/20 15:31 |            |
| Acenaphthylene         | ug/kg | <327         | 327             | 327 | 04/03/20 15:31 |            |
| Anthracene             | ug/kg | <327         | 327             | 327 | 04/03/20 15:31 |            |
| Benzo(a)anthracene     | ug/kg | <327         | 327             | 327 | 04/03/20 15:31 |            |
| Benzo(a)pyrene         | ug/kg | <327         | 327             | 327 | 04/03/20 15:31 |            |
| Benzo(b)fluoranthene   | ug/kg | <327         | 327             | 327 | 04/03/20 15:31 |            |
| Benzo(g,h,i)perylene   | ug/kg | <327         | 327             | 327 | 04/03/20 15:31 |            |
| Benzo(k)fluoranthene   | ug/kg | <327         | 327             | 327 | 04/03/20 15:31 |            |
| Chrysene               | ug/kg | <327         | 327             | 327 | 04/03/20 15:31 |            |
| Dibenz(a,h)anthracene  | ug/kg | <327         | 327             | 327 | 04/03/20 15:31 |            |
| Fluoranthene           | ug/kg | <327         | 327             | 327 | 04/03/20 15:31 |            |
| Fluorene               | ug/kg | <327         | 327             | 327 | 04/03/20 15:31 |            |
| Indeno(1,2,3-cd)pyrene | ug/kg | <327         | 327             | 327 | 04/03/20 15:31 |            |
| Naphthalene            | ug/kg | <327         | 327             | 327 | 04/03/20 15:31 |            |
| Phenanthrene           | ug/kg | <327         | 327             | 327 | 04/03/20 15:31 |            |
| Pyrene                 | ug/kg | <327         | 327             | 327 | 04/03/20 15:31 |            |
| 2-Fluorobiphenyl (S)   | %     | 77           | 37-111          |     | 04/03/20 15:31 |            |
| p-Terphenyl-d14 (S)    | %     | 96           | 29-124          |     | 04/03/20 15:31 |            |

LABORATORY CONTROL SAMPLE: 2561406

| Parameter              | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| 2-Methylnaphthalene    | ug/kg | 330         | <327       | 75        | 50-117       |            |
| Acenaphthene           | ug/kg | 330         | <327       | 80        | 54-116       |            |
| Acenaphthylene         | ug/kg | 330         | <327       | 84        | 55-119       |            |
| Anthracene             | ug/kg | 330         | <327       | 89        | 51-122       |            |
| Benzo(a)anthracene     | ug/kg | 330         | <327       | 80        | 66-125       |            |
| Benzo(a)pyrene         | ug/kg | 330         | <327       | 83        | 61-133       |            |
| Benzo(b)fluoranthene   | ug/kg | 330         | <327       | 86        | 49-141       |            |
| Benzo(g,h,i)perylene   | ug/kg | 330         | <327       | 86        | 53-130       |            |
| Benzo(k)fluoranthene   | ug/kg | 330         | <327       | 90        | 51-135       |            |
| Chrysene               | ug/kg | 330         | <327       | 82        | 63-125       |            |
| Dibenz(a,h)anthracene  | ug/kg | 330         | <327       | 90        | 59-130       |            |
| Fluoranthene           | ug/kg | 330         | <327       | 87        | 65-128       |            |
| Fluorene               | ug/kg | 330         | <327       | 83        | 57-122       |            |
| Indeno(1,2,3-cd)pyrene | ug/kg | 330         | <327       | 91        | 62-122       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale

Pace Project No.: 50253160

LABORATORY CONTROL SAMPLE: 2561406

| Parameter            | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|-------------|------------|-----------|--------------|------------|
| Naphthalene          | ug/kg | 330         | <327       | 74        | 48-109       |            |
| Phenanthrene         | ug/kg | 330         | <327       | 81        | 57-120       |            |
| Pyrene               | ug/kg | 330         | <327       | 79        | 53-127       |            |
| 2-Fluorobiphenyl (S) | %     |             |            | 70        | 37-111       |            |
| p-Terphenyl-d14 (S)  | %     |             |            | 81        | 29-124       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2561407 2561408

| Parameter              | Units | 50253160018    |                 | 2561408   |            | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |
|------------------------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|--------|---------|------|
|                        |       | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result |          |           |              |        |         |      |
| 2-Methylnaphthalene    | ug/kg | <348           | 351             | 350       | <348       | <347     | 69        | 77           | 22-135 | 10      | 20   |
| Acenaphthene           | ug/kg | <348           | 351             | 350       | <348       | <347     | 74        | 81           | 34-123 | 8       | 20   |
| Acenaphthylene         | ug/kg | <348           | 351             | 350       | <348       | <347     | 78        | 86           | 34-127 | 9       | 20   |
| Anthracene             | ug/kg | <348           | 351             | 350       | <348       | <347     | 83        | 91           | 15-142 | 9       | 20   |
| Benzo(a)anthracene     | ug/kg | <348           | 351             | 350       | <348       | <347     | 74        | 81           | 23-148 | 8       | 20   |
| Benzo(a)pyrene         | ug/kg | <348           | 351             | 350       | <348       | <347     | 76        | 81           | 19-149 | 7       | 20   |
| Benzo(b)fluoranthene   | ug/kg | <348           | 351             | 350       | <348       | <347     | 81        | 86           | 13-153 | 6       | 20   |
| Benzo(g,h,i)perylene   | ug/kg | <348           | 351             | 350       | <348       | <347     | 75        | 81           | 10-144 | 7       | 20   |
| Benzo(k)fluoranthene   | ug/kg | <348           | 351             | 350       | <348       | <347     | 80        | 88           | 18-142 | 9       | 20   |
| Chrysene               | ug/kg | <348           | 351             | 350       | <348       | <347     | 73        | 80           | 22-146 | 8       | 20   |
| Dibenz(a,h)anthracene  | ug/kg | <348           | 351             | 350       | <348       | <347     | 83        | 90           | 28-133 | 8       | 20   |
| Fluoranthene           | ug/kg | <348           | 351             | 350       | <348       | <347     | 80        | 88           | 13-162 | 9       | 20   |
| Fluorene               | ug/kg | <348           | 351             | 350       | <348       | <347     | 77        | 84           | 32-134 | 8       | 20   |
| Indeno(1,2,3-cd)pyrene | ug/kg | <348           | 351             | 350       | <348       | <347     | 83        | 89           | 15-141 | 7       | 20   |
| Naphthalene            | ug/kg | <348           | 351             | 350       | <348       | <347     | 67        | 75           | 19-131 | 11      | 20   |
| Phenanthrene           | ug/kg | <348           | 351             | 350       | <348       | <347     | 77        | 83           | 16-149 | 7       | 20   |
| Pyrene                 | ug/kg | <348           | 351             | 350       | <348       | <347     | 71        | 77           | 13-152 | 7       | 20   |
| 2-Fluorobiphenyl (S)   | %     |                |                 |           |            |          | 62        | 69           | 37-111 |         |      |
| p-Terphenyl-d14 (S)    | %     |                |                 |           |            |          | 71        | 77           | 29-124 |         |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

QC Batch: 555879      Analysis Method: EPA 8270 by SIM  
QC Batch Method: EPA 3546      Analysis Description: 8270 MSSV PAH by SIM  
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50253160022

METHOD BLANK: 2563686      Matrix: Solid

Associated Lab Samples: 50253160022

| Parameter              | Units | Blank Result | Reporting Limit | MDL | Analyzed       | Qualifiers |
|------------------------|-------|--------------|-----------------|-----|----------------|------------|
| 2-Methylnaphthalene    | ug/kg | <328         | 328             | 328 | 04/07/20 14:00 |            |
| Acenaphthene           | ug/kg | <328         | 328             | 328 | 04/07/20 14:00 |            |
| Acenaphthylene         | ug/kg | <328         | 328             | 328 | 04/07/20 14:00 |            |
| Anthracene             | ug/kg | <328         | 328             | 328 | 04/07/20 14:00 |            |
| Benzo(a)anthracene     | ug/kg | <328         | 328             | 328 | 04/07/20 14:00 |            |
| Benzo(a)pyrene         | ug/kg | <328         | 328             | 328 | 04/07/20 14:00 |            |
| Benzo(b)fluoranthene   | ug/kg | <328         | 328             | 328 | 04/07/20 14:00 |            |
| Benzo(g,h,i)perylene   | ug/kg | <328         | 328             | 328 | 04/07/20 14:00 |            |
| Benzo(k)fluoranthene   | ug/kg | <328         | 328             | 328 | 04/07/20 14:00 |            |
| Chrysene               | ug/kg | <328         | 328             | 328 | 04/07/20 14:00 |            |
| Dibenz(a,h)anthracene  | ug/kg | <328         | 328             | 328 | 04/07/20 14:00 |            |
| Fluoranthene           | ug/kg | <328         | 328             | 328 | 04/07/20 14:00 |            |
| Fluorene               | ug/kg | <328         | 328             | 328 | 04/07/20 14:00 |            |
| Indeno(1,2,3-cd)pyrene | ug/kg | <328         | 328             | 328 | 04/07/20 14:00 |            |
| Naphthalene            | ug/kg | <328         | 328             | 328 | 04/07/20 14:00 |            |
| Phenanthrene           | ug/kg | <328         | 328             | 328 | 04/07/20 14:00 |            |
| Pyrene                 | ug/kg | <328         | 328             | 328 | 04/07/20 14:00 |            |
| 2-Fluorobiphenyl (S)   | %     | 89           | 37-111          |     | 04/07/20 14:00 |            |
| p-Terphenyl-d14 (S)    | %     | 107          | 29-124          |     | 04/07/20 14:00 |            |

LABORATORY CONTROL SAMPLE: 2563687

| Parameter              | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| 2-Methylnaphthalene    | ug/kg | 330         | 338        | 103       | 50-117       |            |
| Acenaphthene           | ug/kg | 330         | 347        | 105       | 54-116       |            |
| Acenaphthylene         | ug/kg | 330         | 376        | 114       | 55-119       |            |
| Anthracene             | ug/kg | 330         | 387        | 117       | 51-122       |            |
| Benzo(a)anthracene     | ug/kg | 330         | 348        | 105       | 66-125       |            |
| Benzo(a)pyrene         | ug/kg | 330         | 348        | 106       | 61-133       |            |
| Benzo(b)fluoranthene   | ug/kg | 330         | 357        | 108       | 49-141       |            |
| Benzo(g,h,i)perylene   | ug/kg | 330         | 351        | 106       | 53-130       |            |
| Benzo(k)fluoranthene   | ug/kg | 330         | 360        | 109       | 51-135       |            |
| Chrysene               | ug/kg | 330         | 336        | 102       | 63-125       |            |
| Dibenz(a,h)anthracene  | ug/kg | 330         | 370        | 112       | 59-130       |            |
| Fluoranthene           | ug/kg | 330         | 374        | 113       | 65-128       |            |
| Fluorene               | ug/kg | 330         | 360        | 109       | 57-122       |            |
| Indeno(1,2,3-cd)pyrene | ug/kg | 330         | 373        | 113       | 62-122       |            |
| Naphthalene            | ug/kg | 330         | 328        | 99        | 48-109       |            |
| Phenanthrene           | ug/kg | 330         | 344        | 104       | 57-120       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

LABORATORY CONTROL SAMPLE: 2563687

| Parameter            | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|-------------|------------|-----------|--------------|------------|
| Pyrene               | ug/kg | 330         | 329        | 100       | 53-127       |            |
| 2-Fluorobiphenyl (S) | %.    |             |            | 86        | 37-111       |            |
| p-Terphenyl-d14 (S)  | %.    |             |            | 94        | 29-124       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2563688 2563689

| Parameter              | Units | 50253686012 |                | MSD             |           | MS         |       | % Rec |        | Limits | RPD | Max RPD | Qual |
|------------------------|-------|-------------|----------------|-----------------|-----------|------------|-------|-------|--------|--------|-----|---------|------|
|                        |       | Result      | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | % Rec | % Rec |        |        |     |         |      |
| 2-Methylnaphthalene    | ug/kg | ND          | 375            | 379             | <371      | <376       | 67    | 87    | 22-135 | 27     | 20  | R1      |      |
| Acenaphthene           | ug/kg | ND          | 375            | 379             | <371      | <376       | 71    | 90    | 34-123 | 25     | 20  | R1      |      |
| Acenaphthylene         | ug/kg | ND          | 375            | 379             | <371      | <376       | 77    | 98    | 34-127 | 26     | 20  | R1      |      |
| Anthracene             | ug/kg | ND          | 375            | 379             | <371      | <376       | 80    | 95    | 15-142 | 18     | 20  |         |      |
| Benzo(a)anthracene     | ug/kg | ND          | 375            | 379             | <371      | <376       | 71    | 83    | 23-148 | 16     | 20  |         |      |
| Benzo(a)pyrene         | ug/kg | ND          | 375            | 379             | <371      | <376       | 71    | 79    | 19-149 | 12     | 20  |         |      |
| Benzo(b)fluoranthene   | ug/kg | ND          | 375            | 379             | <371      | <376       | 75    | 87    | 13-153 | 15     | 20  |         |      |
| Benzo(g,h,i)perylene   | ug/kg | ND          | 375            | 379             | <371      | <376       | 67    | 76    | 10-144 | 13     | 20  |         |      |
| Benzo(k)fluoranthene   | ug/kg | ND          | 375            | 379             | <371      | <376       | 71    | 84    | 18-142 | 17     | 20  |         |      |
| Chrysene               | ug/kg | ND          | 375            | 379             | <371      | <376       | 64    | 79    | 22-146 | 22     | 20  | R1      |      |
| Dibenz(a,h)anthracene  | ug/kg | ND          | 375            | 379             | <371      | <376       | 74    | 86    | 28-133 | 15     | 20  |         |      |
| Fluoranthene           | ug/kg | ND          | 375            | 379             | <371      | <376       | 77    | 91    | 13-162 | 17     | 20  |         |      |
| Fluorene               | ug/kg | ND          | 375            | 379             | <371      | <376       | 73    | 92    | 32-134 | 24     | 20  | R1      |      |
| Indeno(1,2,3-cd)pyrene | ug/kg | ND          | 375            | 379             | <371      | <376       | 73    | 83    | 15-141 | 14     | 20  |         |      |
| Naphthalene            | ug/kg | ND          | 375            | 379             | <371      | <376       | 67    | 88    | 19-131 | 28     | 20  | R1      |      |
| Phenanthrene           | ug/kg | ND          | 375            | 379             | <371      | <376       | 73    | 87    | 16-149 | 19     | 20  |         |      |
| Pyrene                 | ug/kg | ND          | 375            | 379             | <371      | <376       | 69    | 80    | 13-152 | 16     | 20  |         |      |
| 2-Fluorobiphenyl (S)   | %.    |             |                |                 |           |            | 58    | 72    | 37-111 |        |     |         |      |
| p-Terphenyl-d14 (S)    | %.    |             |                |                 |           |            | 69    | 78    | 29-124 |        |     |         |      |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale

Pace Project No.: 50253160

QC Batch: 554953

Analysis Method: SM 2540G

QC Batch Method: SM 2540G

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50253160001, 50253160002, 50253160003, 50253160004, 50253160005, 50253160006, 50253160007, 50253160008

SAMPLE DUPLICATE: 2559123

| Parameter        | Units | 50253218007<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 16.9                  | 17.9          | 6   | 5          | R1         |

SAMPLE DUPLICATE: 2559124

| Parameter        | Units | 50253160004<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 11.8                  | 11.1          | 6   | 5          | R1         |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

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|                  |          |                       |   |
|------------------|----------|-----------------------|---|
| QC Batch:        | 554954   | Analysis Method:      | SM 2540G                                |
| QC Batch Method: | SM 2540G | Analysis Description: | Dry Weight/Percent Moisture             |
|                  |          | Laboratory:           | Pace Analytical Services - Indianapolis |

Associated Lab Samples: 50253160009, 50253160010, 50253160011, 50253160012, 50253160013, 50253160014, 50253160015, 50253160016, 50253160017, 50253160018, 50253160019, 50253160020, 50253160021, 50253160022, 50253160023, 50253160024, 50253160025, 50253160026, 50253160027

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SAMPLE DUPLICATE: 2559125

| Parameter        | Units | 50253160009<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 8.3                   | 9.1           | 9   | 5          | R1         |

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SAMPLE DUPLICATE: 2559126

| Parameter        | Units | 50253160025<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 10.4                  | 10.3          | 0   | 5          |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

|                  |           |                       |   |
|------------------|-----------|-----------------------|---|
| QC Batch:        | 557592    | Analysis Method:      | EPA 7196A                               |
| QC Batch Method: | EPA 3060A | Analysis Description: | 7196 Chromium, Hexavalent               |
|                  |           | Laboratory:           | Pace Analytical Services - Indianapolis |

Associated Lab Samples: 50253160001, 50253160002, 50253160003, 50253160004, 50253160005, 50253160006, 50253160007, 50253160008, 50253160009, 50253160010, 50253160011, 50253160012, 50253160020, 50253160021, 50253160022, 50253160025, 50253160026, 50253160027

METHOD BLANK: 2571804 Matrix: Solid  
Associated Lab Samples: 50253160001, 50253160002, 50253160003, 50253160004, 50253160005, 50253160006, 50253160007, 50253160008, 50253160009, 50253160010, 50253160011, 50253160012, 50253160020, 50253160021, 50253160022, 50253160025, 50253160026, 50253160027

| Parameter            | Units | Blank Result | Reporting Limit | MDL | Analyzed       | Qualifiers |
|----------------------|-------|--------------|-----------------|-----|----------------|------------|
| Chromium, Hexavalent | mg/kg | <2.0         | 2.0             | 2.0 | 04/18/20 09:57 |            |

LABORATORY CONTROL SAMPLE: 2571805

| Parameter            | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|-------------|------------|-----------|--------------|------------|
| Chromium, Hexavalent | mg/kg | 990         | 909        | 92        | 80-120       |            |

MATRIX SPIKE SAMPLE: 2571806

| Parameter            | Units | 50253160001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Chromium, Hexavalent | mg/kg | <2.2               | 1080        | 999       | 93       | 75-125       |            |

MATRIX SPIKE SAMPLE: 2571807

| Parameter            | Units | 50253160001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Chromium, Hexavalent | mg/kg | <2.2               | 43.1        | 44.2      | 101      | 75-125       |            |

SAMPLE DUPLICATE: 2571808

| Parameter            | Units | 50253160002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|----------------------|-------|--------------------|------------|-----|---------|------------|
| Chromium, Hexavalent | mg/kg | <2.1               | <2.1       |     | 20      |            |

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## QUALIFIERS

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

B0 Analyte was detected in an associated blank at a concentration greater than the MDL.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

ED Due to the extract's physical characteristics, the analysis was performed at dilution.

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

R1 RPD value was outside control limits.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

| Lab ID      | Sample ID       | QC Batch Method         | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------------|-------------------------|----------|-------------------|------------------|
| 50253160013 | MW-104 (14-15') | EPA 8015 Alcohol-Glycol | 554715   |                   |                  |
| 50253160014 | MW-105 (12-13') | EPA 8015 Alcohol-Glycol | 554715   |                   |                  |
| 50253160015 | MW-106 (5-6')   | EPA 8015 Alcohol-Glycol | 554715   |                   |                  |
| 50253160016 | MW-107 (6-7')   | EPA 8015 Alcohol-Glycol | 554715   |                   |                  |
| 50253160017 | MW-108 (4-5')   | EPA 8015 Alcohol-Glycol | 554715   |                   |                  |
| 50253160018 | MW-109 (4-5')   | EPA 8015 Alcohol-Glycol | 554715   |                   |                  |
| 50253160019 | MW-110 (4-5')   | EPA 8015 Alcohol-Glycol | 554715   |                   |                  |
| 50253160020 | MW-113 (7-8')   | EPA 8015 Alcohol-Glycol | 554715   |                   |                  |
| 50253160021 | MW-114 (8-9')   | EPA 8015 Alcohol-Glycol | 554715   |                   |                  |
| 50253160022 | MW-115 (7-8')   | EPA 8015 Alcohol-Glycol | 554715   |                   |                  |
| 50253160023 | Dup-1           | EPA 8015 Alcohol-Glycol | 554715   |                   |                  |
| 50253160024 | Dup-2           | EPA 8015 Alcohol-Glycol | 554715   |                   |                  |
| 50253160025 | MW-113 (2-3')   | EPA 8015 Alcohol-Glycol | 554715   |                   |                  |
| 50253160026 | MW-114 (3-4')   | EPA 8015 Alcohol-Glycol | 554715   |                   |                  |
| 50253160027 | MW-115 (2-3')   | EPA 8015 Alcohol-Glycol | 554715   |                   |                  |
| 50253160001 | MW-101 (2-3')   | EPA 3050                | 554464   | EPA 6010          | 555575           |
| 50253160002 | MW-102 (2-3')   | EPA 3050                | 554464   | EPA 6010          | 555575           |
| 50253160003 | MW-103 (2-3')   | EPA 3050                | 554464   | EPA 6010          | 555575           |
| 50253160004 | MW-104 (2-3')   | EPA 3050                | 554464   | EPA 6010          | 555575           |
| 50253160005 | MW-105 (2-3')   | EPA 3050                | 554464   | EPA 6010          | 555575           |
| 50253160006 | MW-106 (2-3')   | EPA 3050                | 554464   | EPA 6010          | 555575           |
| 50253160007 | MW-107 (2-3')   | EPA 3050                | 554464   | EPA 6010          | 555575           |
| 50253160008 | MW-108 (2-3')   | EPA 3050                | 554464   | EPA 6010          | 555575           |
| 50253160009 | MW-109 (1-2')   | EPA 3050                | 554464   | EPA 6010          | 555575           |
| 50253160010 | MW-110 (1-2')   | EPA 3050                | 554464   | EPA 6010          | 555575           |
| 50253160011 | MW-111 (3-4')   | EPA 3050                | 554464   | EPA 6010          | 555575           |
| 50253160012 | MW-112 (3-4')   | EPA 3050                | 554464   | EPA 6010          | 555575           |
| 50253160020 | MW-113 (7-8')   | EPA 3050                | 554464   | EPA 6010          | 555575           |
| 50253160021 | MW-114 (8-9')   | EPA 3050                | 554464   | EPA 6010          | 555575           |
| 50253160022 | MW-115 (7-8')   | EPA 3050                | 554464   | EPA 6010          | 555575           |
| 50253160023 | Dup-1           | EPA 3050                | 554464   | EPA 6010          | 555575           |
| 50253160024 | Dup-2           | EPA 3050                | 554464   | EPA 6010          | 555575           |
| 50253160025 | MW-113 (2-3')   | EPA 3050                | 554464   | EPA 6010          | 555575           |
| 50253160026 | MW-114 (3-4')   | EPA 3050                | 554464   | EPA 6010          | 555575           |
| 50253160027 | MW-115 (2-3')   | EPA 3050                | 554464   | EPA 6010          | 555575           |
| 50253160001 | MW-101 (2-3')   | EPA 3050B               | 554556   | EPA 6020          | 554706           |
| 50253160002 | MW-102 (2-3')   | EPA 3050B               | 554556   | EPA 6020          | 554706           |
| 50253160003 | MW-103 (2-3')   | EPA 3050B               | 554556   | EPA 6020          | 554706           |
| 50253160004 | MW-104 (2-3')   | EPA 3050B               | 554556   | EPA 6020          | 554706           |
| 50253160005 | MW-105 (2-3')   | EPA 3050B               | 554556   | EPA 6020          | 554706           |
| 50253160006 | MW-106 (2-3')   | EPA 3050B               | 554556   | EPA 6020          | 554706           |
| 50253160007 | MW-107 (2-3')   | EPA 3050B               | 554556   | EPA 6020          | 554706           |
| 50253160008 | MW-108 (2-3')   | EPA 3050B               | 554556   | EPA 6020          | 554706           |
| 50253160009 | MW-109 (1-2')   | EPA 3050B               | 554556   | EPA 6020          | 554706           |
| 50253160010 | MW-110 (1-2')   | EPA 3050B               | 554556   | EPA 6020          | 554706           |
| 50253160011 | MW-111 (3-4')   | EPA 3050B               | 554556   | EPA 6020          | 554706           |
| 50253160012 | MW-112 (3-4')   | EPA 3050B               | 554556   | EPA 6020          | 554706           |
| 50253160020 | MW-113 (7-8')   | EPA 3050B               | 554556   | EPA 6020          | 554706           |

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

| Lab ID      | Sample ID       | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------------|-----------------|----------|-------------------|------------------|
| 50253160021 | MW-114 (8-9')   | EPA 3050B       | 554556   | EPA 6020          | 554706           |
| 50253160022 | MW-115 (7-8')   | EPA 3050B       | 554556   | EPA 6020          | 554706           |
| 50253160023 | Dup-1           | EPA 3050B       | 554556   | EPA 6020          | 554706           |
| 50253160024 | Dup-2           | EPA 3050B       | 554556   | EPA 6020          | 554706           |
| 50253160025 | MW-113 (2-3')   | EPA 3050B       | 554556   | EPA 6020          | 554706           |
| 50253160026 | MW-114 (3-4')   | EPA 3050B       | 554556   | EPA 6020          | 554706           |
| 50253160027 | MW-115 (2-3')   | EPA 3050B       | 554556   | EPA 6020          | 554706           |
| 50253160001 | MW-101 (2-3')   | EPA 7471        | 555036   | EPA 7471          | 555601           |
| 50253160002 | MW-102 (2-3')   | EPA 7471        | 555036   | EPA 7471          | 555601           |
| 50253160003 | MW-103 (2-3')   | EPA 7471        | 555036   | EPA 7471          | 555601           |
| 50253160004 | MW-104 (2-3')   | EPA 7471        | 555036   | EPA 7471          | 555601           |
| 50253160005 | MW-105 (2-3')   | EPA 7471        | 555036   | EPA 7471          | 555601           |
| 50253160006 | MW-106 (2-3')   | EPA 7471        | 555036   | EPA 7471          | 555601           |
| 50253160007 | MW-107 (2-3')   | EPA 7471        | 555036   | EPA 7471          | 555601           |
| 50253160008 | MW-108 (2-3')   | EPA 7471        | 555036   | EPA 7471          | 555601           |
| 50253160009 | MW-109 (1-2')   | EPA 7471        | 555037   | EPA 7471          | 555602           |
| 50253160010 | MW-110 (1-2')   | EPA 7471        | 555037   | EPA 7471          | 555602           |
| 50253160011 | MW-111 (3-4')   | EPA 7471        | 555037   | EPA 7471          | 555602           |
| 50253160012 | MW-112 (3-4')   | EPA 7471        | 555037   | EPA 7471          | 555602           |
| 50253160020 | MW-113 (7-8')   | EPA 7471        | 555037   | EPA 7471          | 555602           |
| 50253160021 | MW-114 (8-9')   | EPA 7471        | 555037   | EPA 7471          | 555602           |
| 50253160022 | MW-115 (7-8')   | EPA 7471        | 555037   | EPA 7471          | 555602           |
| 50253160023 | Dup-1           | EPA 7471        | 555037   | EPA 7471          | 555602           |
| 50253160024 | Dup-2           | EPA 7471        | 555037   | EPA 7471          | 555602           |
| 50253160025 | MW-113 (2-3')   | EPA 7471        | 555037   | EPA 7471          | 555602           |
| 50253160026 | MW-114 (3-4')   | EPA 7471        | 555037   | EPA 7471          | 555602           |
| 50253160027 | MW-115 (2-3')   | EPA 7471        | 555037   | EPA 7471          | 555602           |
| 50253160013 | MW-104 (14-15') | EPA 3546        | 555383   | EPA 8270 by SIM   | 555486           |
| 50253160014 | MW-105 (12-13') | EPA 3546        | 555383   | EPA 8270 by SIM   | 555486           |
| 50253160015 | MW-106 (5-6')   | EPA 3546        | 555383   | EPA 8270 by SIM   | 555486           |
| 50253160016 | MW-107 (6-7')   | EPA 3546        | 555383   | EPA 8270 by SIM   | 555486           |
| 50253160017 | MW-108 (4-5')   | EPA 3546        | 555383   | EPA 8270 by SIM   | 555486           |
| 50253160018 | MW-109 (4-5')   | EPA 3546        | 555383   | EPA 8270 by SIM   | 555486           |
| 50253160019 | MW-110 (4-5')   | EPA 3546        | 555383   | EPA 8270 by SIM   | 555486           |
| 50253160020 | MW-113 (7-8')   | EPA 3546        | 555383   | EPA 8270 by SIM   | 555486           |
| 50253160021 | MW-114 (8-9')   | EPA 3546        | 555383   | EPA 8270 by SIM   | 555486           |
| 50253160022 | MW-115 (7-8')   | EPA 3546        | 555879   | EPA 8270 by SIM   | 555928           |
| 50253160023 | Dup-1           | EPA 3546        | 555383   | EPA 8270 by SIM   | 555486           |
| 50253160024 | Dup-2           | EPA 3546        | 555383   | EPA 8270 by SIM   | 555486           |
| 50253160025 | MW-113 (2-3')   | EPA 3546        | 555383   | EPA 8270 by SIM   | 555486           |
| 50253160026 | MW-114 (3-4')   | EPA 3546        | 555383   | EPA 8270 by SIM   | 555486           |
| 50253160027 | MW-115 (2-3')   | EPA 3546        | 555383   | EPA 8270 by SIM   | 555486           |
| 50253160013 | MW-104 (14-15') | EPA 8260        | 554837   |                   |                  |
| 50253160014 | MW-105 (12-13') | EPA 8260        | 554837   |                   |                  |
| 50253160015 | MW-106 (5-6')   | EPA 8260        | 554837   |                   |                  |
| 50253160016 | MW-107 (6-7')   | EPA 8260        | 554837   |                   |                  |

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

| Lab ID      | Sample ID       | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------------|-----------------|----------|-------------------|------------------|
| 50253160017 | MW-108 (4-5')   | EPA 8260        | 554837   |                   |                  |
| 50253160018 | MW-109 (4-5')   | EPA 8260        | 554837   |                   |                  |
| 50253160019 | MW-110 (4-5')   | EPA 8260        | 554837   |                   |                  |
| 50253160020 | MW-113 (7-8')   | EPA 8260        | 554837   |                   |                  |
| 50253160021 | MW-114 (8-9')   | EPA 8260        | 554837   |                   |                  |
| 50253160022 | MW-115 (7-8')   | EPA 8260        | 554837   |                   |                  |
| 50253160023 | Dup-1           | EPA 8260        | 554837   |                   |                  |
| 50253160024 | Dup-2           | EPA 8260        | 554837   |                   |                  |
| 50253160025 | MW-113 (2-3')   | EPA 8260        | 554837   |                   |                  |
| 50253160026 | MW-114 (3-4')   | EPA 8260        | 554837   |                   |                  |
| 50253160027 | MW-115 (2-3')   | EPA 8260        | 554837   |                   |                  |
| 50253160028 | Trip Blank      | EPA 8260        | 554837   |                   |                  |
| 50253160029 | Field Blank     | EPA 8260        | 554837   |                   |                  |
| 50253160001 | MW-101 (2-3')   | SM 2540G        | 554953   |                   |                  |
| 50253160002 | MW-102 (2-3')   | SM 2540G        | 554953   |                   |                  |
| 50253160003 | MW-103 (2-3')   | SM 2540G        | 554953   |                   |                  |
| 50253160004 | MW-104 (2-3')   | SM 2540G        | 554953   |                   |                  |
| 50253160005 | MW-105 (2-3')   | SM 2540G        | 554953   |                   |                  |
| 50253160006 | MW-106 (2-3')   | SM 2540G        | 554953   |                   |                  |
| 50253160007 | MW-107 (2-3')   | SM 2540G        | 554953   |                   |                  |
| 50253160008 | MW-108 (2-3')   | SM 2540G        | 554953   |                   |                  |
| 50253160009 | MW-109 (1-2')   | SM 2540G        | 554954   |                   |                  |
| 50253160010 | MW-110 (1-2')   | SM 2540G        | 554954   |                   |                  |
| 50253160011 | MW-111 (3-4')   | SM 2540G        | 554954   |                   |                  |
| 50253160012 | MW-112 (3-4')   | SM 2540G        | 554954   |                   |                  |
| 50253160013 | MW-104 (14-15') | SM 2540G        | 554954   |                   |                  |
| 50253160014 | MW-105 (12-13') | SM 2540G        | 554954   |                   |                  |
| 50253160015 | MW-106 (5-6')   | SM 2540G        | 554954   |                   |                  |
| 50253160016 | MW-107 (6-7')   | SM 2540G        | 554954   |                   |                  |
| 50253160017 | MW-108 (4-5')   | SM 2540G        | 554954   |                   |                  |
| 50253160018 | MW-109 (4-5')   | SM 2540G        | 554954   |                   |                  |
| 50253160019 | MW-110 (4-5')   | SM 2540G        | 554954   |                   |                  |
| 50253160020 | MW-113 (7-8')   | SM 2540G        | 554954   |                   |                  |
| 50253160021 | MW-114 (8-9')   | SM 2540G        | 554954   |                   |                  |
| 50253160022 | MW-115 (7-8')   | SM 2540G        | 554954   |                   |                  |
| 50253160023 | Dup-1           | SM 2540G        | 554954   |                   |                  |
| 50253160024 | Dup-2           | SM 2540G        | 554954   |                   |                  |
| 50253160025 | MW-113 (2-3')   | SM 2540G        | 554954   |                   |                  |
| 50253160026 | MW-114 (3-4')   | SM 2540G        | 554954   |                   |                  |
| 50253160027 | MW-115 (2-3')   | SM 2540G        | 554954   |                   |                  |
| 50253160001 | MW-101 (2-3')   | EPA 3060A       | 557592   | EPA 7196A         | 557788           |
| 50253160002 | MW-102 (2-3')   | EPA 3060A       | 557592   | EPA 7196A         | 557788           |
| 50253160003 | MW-103 (2-3')   | EPA 3060A       | 557592   | EPA 7196A         | 557788           |
| 50253160004 | MW-104 (2-3')   | EPA 3060A       | 557592   | EPA 7196A         | 557788           |
| 50253160005 | MW-105 (2-3')   | EPA 3060A       | 557592   | EPA 7196A         | 557788           |
| 50253160006 | MW-106 (2-3')   | EPA 3060A       | 557592   | EPA 7196A         | 557788           |
| 50253160007 | MW-107 (2-3')   | EPA 3060A       | 557592   | EPA 7196A         | 557788           |

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 8 Mile Ferndale  
Pace Project No.: 50253160

| Lab ID      | Sample ID     | QC Batch Method                | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------|--------------------------------|----------|-------------------|------------------|
| 50253160008 | MW-108 (2-3') | EPA 3060A                      | 557592   | EPA 7196A         | 557788           |
| 50253160009 | MW-109 (1-2') | EPA 3060A                      | 557592   | EPA 7196A         | 557788           |
| 50253160010 | MW-110 (1-2') | EPA 3060A                      | 557592   | EPA 7196A         | 557788           |
| 50253160011 | MW-111 (3-4') | EPA 3060A                      | 557592   | EPA 7196A         | 557788           |
| 50253160012 | MW-112 (3-4') | EPA 3060A                      | 557592   | EPA 7196A         | 557788           |
| 50253160020 | MW-113 (7-8') | EPA 3060A                      | 557592   | EPA 7196A         | 557788           |
| 50253160021 | MW-114 (8-9') | EPA 3060A                      | 557592   | EPA 7196A         | 557788           |
| 50253160022 | MW-115 (7-8') | EPA 3060A                      | 557592   | EPA 7196A         | 557788           |
| 50253160025 | MW-113 (2-3') | EPA 3060A                      | 557592   | EPA 7196A         | 557788           |
| 50253160026 | MW-114 (3-4') | EPA 3060A                      | 557592   | EPA 7196A         | 557788           |
| 50253160027 | MW-115 (2-3') | EPA 3060A                      | 557592   | EPA 7196A         | 557788           |
| 50253160001 | MW-101 (2-3') | Trivalent Chromium Calculation | 558525   |                   |                  |
| 50253160002 | MW-102 (2-3') | Trivalent Chromium Calculation | 558525   |                   |                  |
| 50253160003 | MW-103 (2-3') | Trivalent Chromium Calculation | 558525   |                   |                  |
| 50253160004 | MW-104 (2-3') | Trivalent Chromium Calculation | 558525   |                   |                  |
| 50253160005 | MW-105 (2-3') | Trivalent Chromium Calculation | 558525   |                   |                  |
| 50253160006 | MW-106 (2-3') | Trivalent Chromium Calculation | 558525   |                   |                  |
| 50253160007 | MW-107 (2-3') | Trivalent Chromium Calculation | 558525   |                   |                  |
| 50253160008 | MW-108 (2-3') | Trivalent Chromium Calculation | 558525   |                   |                  |
| 50253160009 | MW-109 (1-2') | Trivalent Chromium Calculation | 558525   |                   |                  |
| 50253160010 | MW-110 (1-2') | Trivalent Chromium Calculation | 558525   |                   |                  |
| 50253160011 | MW-111 (3-4') | Trivalent Chromium Calculation | 558525   |                   |                  |
| 50253160012 | MW-112 (3-4') | Trivalent Chromium Calculation | 558525   |                   |                  |
| 50253160020 | MW-113 (7-8') | Trivalent Chromium Calculation | 558525   |                   |                  |
| 50253160021 | MW-114 (8-9') | Trivalent Chromium Calculation | 558525   |                   |                  |
| 50253160022 | MW-115 (7-8') | Trivalent Chromium Calculation | 558525   |                   |                  |
| 50253160025 | MW-113 (2-3') | Trivalent Chromium Calculation | 558525   |                   |                  |
| 50253160026 | MW-114 (3-4') | Trivalent Chromium Calculation | 558525   |                   |                  |
| 50253160027 | MW-115 (2-3') | Trivalent Chromium Calculation | 558525   |                   |                  |

### REPORT OF LABORATORY ANALYSIS

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## Sample Conditions Upon Receipt Form (SCUR)

|  |  |   |  |   |  |
|--|--|---|--|---|--|
| Date/Time: <u>3-27-20</u>  |  | Evaluated by: <u>WDC</u>  |  | <b>WO#: 50253160</b><br>PM: <u>BJH</u> Due Date: <u>04/07/20</u><br>CLIENT: <u>GR-ATC</u> |  |
| Client: <u>ATC</u>   |  | Profile ID:   |  |   |  |
| Project Manager: <u>BJH</u>  |  | Rush TAT Requested: <input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> NO    Due Date: |  |   |  |
| Lab Notified of Rush or Short Holds: <input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> NO  |  | Non Conformance Form Required: <input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> NO   |  |   |  |
| Samples Received Via: <input checked="" type="checkbox"/> FedEx <input checked="" type="checkbox"/> UPS <input checked="" type="checkbox"/> Client <input checked="" type="checkbox"/> Pace Courier    Other: _____  |  |   |  | Comments:   |  |
| Custody Seals Present and Intact:  |  | <input checked="" type="checkbox"/> YES   | <input checked="" type="checkbox"/> NO | <input checked="" type="checkbox"/> NA  |  |
| Received Sample Information Form(s): Drinking Waters Only  |  | <input checked="" type="checkbox"/> YES   | <input checked="" type="checkbox"/> NO | <input checked="" type="checkbox"/> NA  |  |
| USDA Regulated Soils: (AL, AR, CA, FL, GA, ID, LA, MS, NM, NY, NC, OK, OR, SC, TN, TX, WA or Puerto Rico)  |  | <input checked="" type="checkbox"/> YES   | <input checked="" type="checkbox"/> NO | <input checked="" type="checkbox"/> N/A   |  |
| Short Holds Present (< 72 Hours):  |  | <input checked="" type="checkbox"/> YES   | <input checked="" type="checkbox"/> NO | <input checked="" type="checkbox"/>   |  |
| Samples Received in Hold:  |  | <input checked="" type="checkbox"/> YES   | <input checked="" type="checkbox"/> NO | <input checked="" type="checkbox"/>   |  |
| Custody Signatures Present:  |  | <input checked="" type="checkbox"/> YES   | <input checked="" type="checkbox"/> NO | <input checked="" type="checkbox"/>   |  |
| Collector Signature Present:   |  | <input checked="" type="checkbox"/> YES   | <input checked="" type="checkbox"/> NO | <input checked="" type="checkbox"/>   |  |
| Packing Material Used:   |  | <input checked="" type="checkbox"/> YES   | <input checked="" type="checkbox"/> NO | <input checked="" type="checkbox"/>   |  |
| Samples Collected Today and On Ice:  |  | <input checked="" type="checkbox"/> YES   | <input checked="" type="checkbox"/> NO | <input checked="" type="checkbox"/> N/A   |  |
| IR Gun #:    280    281  |  | Digital Thermometer #:    282    283  |  |   |  |
| Ice Type:    WET Bagged / WET Loose    BLUE    NONE  |  | 1. Cooler Temp Upon Receipt: <u>3.6/4.2</u> °C  |  |   |  |
| Ice Location:    TOP    BOTTOM    MIDDLE    DISPERSED  |  | Temp should be 0-6°C (Initial/Corrected)  |  |   |  |
| Temp Blank Received:   |  | <input checked="" type="checkbox"/> YES   | <input checked="" type="checkbox"/> NO | <input checked="" type="checkbox"/>   |  |
| Containers Intact:   |  | <input checked="" type="checkbox"/> YES   | <input checked="" type="checkbox"/> NO | <input checked="" type="checkbox"/>   |  |
| Correct Containers:  |  | <input checked="" type="checkbox"/> YES   | <input checked="" type="checkbox"/> NO | <input checked="" type="checkbox"/>   |  |
| Sufficient Volume:   |  | <input checked="" type="checkbox"/> YES   | <input checked="" type="checkbox"/> NO | <input checked="" type="checkbox"/>   |  |
| Sample pH Acceptable: All containers needing preservation are found to be in compliance with EPA recommendation<br>Exceptions are VOA, coliform, LLHg, O&G, or any container with a septum cap or preserved with HCl |  | <input checked="" type="checkbox"/> YES   | <input checked="" type="checkbox"/> NO | <input checked="" type="checkbox"/> N/A   |  |
| Residual Chlorine Absent:<br>(SVOC/Pest 625, PCB 608, Total/Amenable/Available Cyanide)  |  | <input checked="" type="checkbox"/> YES   | <input checked="" type="checkbox"/> NO | <input checked="" type="checkbox"/> N/A   |  |
| VOA Headspace Acceptable (<6mm):   |  | <input checked="" type="checkbox"/> YES   | <input checked="" type="checkbox"/> NO | <input checked="" type="checkbox"/> N/A   |  |
| Trip Blank Received:    HCl    MeOH    TSP    OTHER  |  | <input checked="" type="checkbox"/> YES   | <input checked="" type="checkbox"/> NO | <input checked="" type="checkbox"/>   |  |
| Comments:  |  | 2. Cooler Temp Upon Receipt: _____ °C   |  |   |  |
|  |  | 3. Cooler Temp Upon Receipt: _____ °C   |  |   |  |
|  |  | 4. Cooler Temp Upon Receipt: _____ °C   |  |   |  |
|  |  |   |  |   |  |

April 23, 2020

Joshua Schuyler  
ATC Group Services - Novi  
46555 Humboldt Drive  
Suite 100  
Novi, MI 48377

RE: Project: 8 Mile Ferndale  
Pace Project No.: 50253312

Dear Joshua Schuyler:

Enclosed are the analytical results for sample(s) received by the laboratory on March 31, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

Revised Report. This report replaces the original dated 040920, it has been revised to add Chrome Speciation, per client request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Brian Hall  
brian.hall@pacelabs.com  
(616)975-4500  
Project Manager

Enclosures

cc: AP c/o Abigail Jardine, ATC Group Services  
Michael Hauswirth, ATC Group Services  
April Hehir



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 8 Mile Ferndale

Pace Project No.: 50253312

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### **Pace Analytical Services Indianapolis**

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

West Virginia Certification #: 330

Wisconsin Laboratory #: 999788130

USDA Soil Permit #: P330-19-00257

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 8 Mile Ferndale  
Pace Project No.: 50253312

| Lab ID      | Sample ID       | Matrix | Date Collected | Date Received  |
|-------------|-----------------|--------|----------------|----------------|
| 50253312001 | MW-116 (2-3')   | Solid  | 03/30/20 10:30 | 03/31/20 08:15 |
| 50253312002 | MW-116 (7-8')   | Solid  | 03/30/20 10:40 | 03/31/20 08:15 |
| 50253312003 | MW-117 (2-3')   | Solid  | 03/30/20 11:10 | 03/31/20 08:15 |
| 50253312004 | MW-117 (6-7')   | Solid  | 03/30/20 11:20 | 03/31/20 08:15 |
| 50253312005 | MW-118 (2-3')   | Solid  | 03/30/20 12:00 | 03/31/20 08:15 |
| 50253312006 | MW-118 (10-11') | Solid  | 03/30/20 12:10 | 03/31/20 08:15 |
| 50253312007 | Dup-1           | Solid  | 03/30/20 12:00 | 03/31/20 08:15 |
| 50253312008 | Trip Blank      | Solid  | 03/30/20 08:30 | 03/31/20 08:15 |
| 50253312009 | Field Blank     | Solid  | 03/30/20 11:00 | 03/31/20 08:15 |

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 8 Mile Ferndale  
Pace Project No.: 50253312

| Lab ID      | Sample ID       | Method                         | Analysts | Analytes Reported |
|-------------|-----------------|--------------------------------|----------|-------------------|
| 50253312001 | MW-116 (2-3')   | EPA 6010                       | JPK, KJE | 4                 |
|             |                 | EPA 6020                       | DMT      | 3                 |
|             |                 | EPA 7471                       | ILP      | 1                 |
|             |                 | SM 2540G                       | SWJ      | 1                 |
|             |                 | EPA 7196A                      | SWJ      | 1                 |
|             |                 | Trivalent Chromium Calculation | SLB      | 1                 |
| 50253312002 | MW-116 (7-8')   | EPA 8015 Alcohol-Glycol        | CPH      | 3                 |
|             |                 | EPA 6010                       | JPK, KJE | 4                 |
|             |                 | EPA 6020                       | DMT      | 3                 |
|             |                 | EPA 7471                       | ILP      | 1                 |
|             |                 | EPA 8270 by SIM                | LWG      | 19                |
|             |                 | EPA 8260                       | JPV      | 75                |
|             |                 | SM 2540G                       | SWJ      | 1                 |
|             |                 | EPA 7196A                      | SWJ      | 1                 |
| 50253312003 | MW-117 (2-3')   | Trivalent Chromium Calculation | SLB      | 1                 |
|             |                 | EPA 6010                       | JPK, KJE | 4                 |
|             |                 | EPA 6020                       | DMT      | 3                 |
|             |                 | EPA 7471                       | ILP      | 1                 |
|             |                 | SM 2540G                       | SWJ      | 1                 |
|             |                 | EPA 7196A                      | SWJ      | 1                 |
| 50253312004 | MW-117 (6-7')   | Trivalent Chromium Calculation | SLB      | 1                 |
|             |                 | EPA 8015 Alcohol-Glycol        | CPH      | 3                 |
|             |                 | EPA 6010                       | JPK, KJE | 4                 |
|             |                 | EPA 6020                       | DMT      | 3                 |
|             |                 | EPA 7471                       | ILP      | 1                 |
|             |                 | EPA 8270 by SIM                | LWG      | 19                |
|             |                 | EPA 8260                       | JPV      | 75                |
|             |                 | SM 2540G                       | SWJ      | 1                 |
| 50253312005 | MW-118 (2-3')   | EPA 7196A                      | SWJ      | 1                 |
|             |                 | Trivalent Chromium Calculation | SLB      | 1                 |
|             |                 | EPA 6010                       | JPK, KJE | 4                 |
|             |                 | EPA 6020                       | DMT      | 3                 |
|             |                 | EPA 7471                       | ILP      | 1                 |
|             |                 | SM 2540G                       | SWJ      | 1                 |
| 50253312006 | MW-118 (10-11') | EPA 7196A                      | SWJ      | 1                 |
|             |                 | Trivalent Chromium Calculation | SLB      | 1                 |
|             |                 | EPA 8015 Alcohol-Glycol        | CPH      | 3                 |

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### SAMPLE ANALYTE COUNT

Project: 8 Mile Ferndale

Pace Project No.: 50253312

| Lab ID             | Sample ID          | Method                         | Analysts | Analytes Reported |
|--------------------|--------------------|--------------------------------|----------|-------------------|
|                    |                    | EPA 6010                       | JPK, KJE | 4                 |
|                    |                    | EPA 6020                       | DMT      | 3                 |
|                    |                    | EPA 7471                       | ILP      | 1                 |
|                    |                    | EPA 8270 by SIM                | LWG      | 19                |
|                    |                    | EPA 8260                       | JPV      | 75                |
|                    |                    | SM 2540G                       | SWJ      | 1                 |
|                    |                    | EPA 7196A                      | SWJ      | 1                 |
|                    |                    | Trivalent Chromium Calculation | SLB      | 1                 |
| <b>50253312007</b> | <b>Dup-1</b>       | EPA 8015 Alcohol-Glycol        | CPH      | 3                 |
|                    |                    | EPA 6010                       | JPK, KJE | 4                 |
|                    |                    | EPA 6020                       | DMT      | 3                 |
|                    |                    | EPA 7471                       | ILP      | 1                 |
|                    |                    | EPA 8270 by SIM                | LWG      | 19                |
|                    |                    | EPA 8260                       | JPV      | 75                |
|                    |                    | SM 2540G                       | SWJ      | 1                 |
| <b>50253312008</b> | <b>Trip Blank</b>  | EPA 8260                       | JPV      | 75                |
| <b>50253312009</b> | <b>Field Blank</b> | EPA 8260                       | JPV      | 75                |

PASI-I = Pace Analytical Services - Indianapolis

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253312

**Sample: MW-116 (2-3)**      **Lab ID: 50253312001**      Collected: 03/30/20 10:30      Received: 03/31/20 08:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL   | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|-------|-------|----|----------------|----------------|------------|------|
| <b>6010 MET ICP</b>  |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050   |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Arsenic  | <2120   | ug/kg | 2120  | 2120  | 1  | 04/06/20 15:14 | 04/07/20 13:58 | 7440-38-2  |      |
| Barium   | 13500   | ug/kg | 1060  | 1060  | 1  | 04/06/20 15:14 | 04/07/20 13:58 | 7440-39-3  |      |
| Chromium   | 8780    | ug/kg | 2150  | 2150  | 1  | 04/08/20 13:34 | 04/09/20 03:23 | 7440-47-3  |      |
| Lead   | <10600  | ug/kg | 10600 | 10600 | 1  | 04/06/20 15:14 | 04/07/20 13:58 | 7439-92-1  |      |
| <b>6020 MET ICPMS</b>                                      |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B  |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Selenium   | 312     | ug/kg | 208   | 208   | 1  | 04/06/20 00:53 | 04/06/20 10:59 | 7782-49-2  |      |
| Silver   | <104    | ug/kg | 104   | 104   | 1  | 04/06/20 00:53 | 04/06/20 10:59 | 7440-22-4  |      |
| Cadmium  | <208    | ug/kg | 208   | 208   | 1  | 04/06/20 00:53 | 04/06/20 10:59 | 7440-43-9  |      |
| <b>7471 Mercury</b>  |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471   |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Mercury  | <64.9   | ug/kg | 116   | 64.9  | 1  | 04/08/20 12:06 | 04/09/20 08:16 | 7439-97-6  |      |
| <b>Percent Moisture</b>                                    |         |       |       |       |    |                |                |            |      |
| Analytical Method: SM 2540G                                |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Percent Moisture   | 10.7    | %     | 0.10  | 0.10  | 1  |                | 04/04/20 11:26 |            |      |
| <b>7196 Chromium, Hexavalent</b>                           |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 7196A Preparation Method: EPA 3060A |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Chromium, Hexavalent                                       | <2.2    | mg/kg | 2.2   | 2.2   | 1  | 04/17/20 09:08 | 04/18/20 10:41 | 18540-29-9 |      |
| <b>Trivalent Chromium Calculation</b>                      |         |       |       |       |    |                |                |            |      |
| Analytical Method: Trivalent Chromium Calculation          |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Chromium, Trivalent  | 8.8     | mg/kg | 1.0   |       | 1  |                | 04/23/20 07:45 | 16065-83-1 |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253312

**Sample: MW-116 (7-8)**      **Lab ID: 50253312002**      Collected: 03/30/20 10:40      Received: 03/31/20 08:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                      |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                           |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| n-Butanol  | <5110   | ug/kg | 5110   | 5110  | 1  |                | 04/05/20 13:34 | 71-36-3   |      |
| Ethanol  | <2900   | ug/kg | 2900   | 2900  | 1  |                | 04/05/20 13:34 | 64-17-5   | B0   |
| Methanol   | 9010    | ug/kg | 5110   | 5110  | 1  |                | 04/05/20 13:34 | 67-56-1   |      |
| <b>6010 MET ICP</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050        |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Arsenic  | <2170   | ug/kg | 2170   | 2170  | 1  | 04/06/20 15:14 | 04/07/20 14:00 | 7440-38-2 |      |
| Barium   | 7980    | ug/kg | 1080   | 1080  | 1  | 04/06/20 15:14 | 04/07/20 14:00 | 7440-39-3 |      |
| Chromium   | 3900    | ug/kg | 1970   | 1970  | 1  | 04/08/20 13:34 | 04/09/20 03:25 | 7440-47-3 |      |
| Lead   | <10800  | ug/kg | 10800  | 10800 | 1  | 04/06/20 15:14 | 04/07/20 14:00 | 7439-92-1 |      |
| <b>6020 MET ICPMS</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B       |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Cadmium  | <217    | ug/kg | 217    | 217   | 1  | 04/06/20 00:53 | 04/06/20 11:40 | 7440-43-9 |      |
| Selenium   | <217    | ug/kg | 217    | 217   | 1  | 04/06/20 00:53 | 04/06/20 11:40 | 7782-49-2 |      |
| Silver   | <109    | ug/kg | 109    | 109   | 1  | 04/06/20 00:53 | 04/06/20 11:40 | 7440-22-4 |      |
| <b>7471 Mercury</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7471      Preparation Method: EPA 7471        |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Mercury  | <62.5   | ug/kg | 112    | 62.5  | 1  | 04/08/20 12:06 | 04/09/20 08:18 | 7439-97-6 |      |
| <b>8270 PAH Soil</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546 |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Acenaphthene   | <382    | ug/kg | 382    | 382   | 1  | 04/07/20 01:03 | 04/07/20 13:26 | 83-32-9   |      |
| Acenaphthylene   | <382    | ug/kg | 382    | 382   | 1  | 04/07/20 01:03 | 04/07/20 13:26 | 208-96-8  |      |
| Anthracene   | <382    | ug/kg | 382    | 382   | 1  | 04/07/20 01:03 | 04/07/20 13:26 | 120-12-7  |      |
| Benzo(a)anthracene   | <382    | ug/kg | 382    | 382   | 1  | 04/07/20 01:03 | 04/07/20 13:26 | 56-55-3   |      |
| Benzo(a)pyrene   | <382    | ug/kg | 382    | 382   | 1  | 04/07/20 01:03 | 04/07/20 13:26 | 50-32-8   |      |
| Benzo(b)fluoranthene   | <382    | ug/kg | 382    | 382   | 1  | 04/07/20 01:03 | 04/07/20 13:26 | 205-99-2  |      |
| Benzo(g,h,i)perylene   | <382    | ug/kg | 382    | 382   | 1  | 04/07/20 01:03 | 04/07/20 13:26 | 191-24-2  |      |
| Benzo(k)fluoranthene   | <382    | ug/kg | 382    | 382   | 1  | 04/07/20 01:03 | 04/07/20 13:26 | 207-08-9  |      |
| Chrysene   | <382    | ug/kg | 382    | 382   | 1  | 04/07/20 01:03 | 04/07/20 13:26 | 218-01-9  |      |
| Dibenz(a,h)anthracene  | <382    | ug/kg | 382    | 382   | 1  | 04/07/20 01:03 | 04/07/20 13:26 | 53-70-3   |      |
| Fluoranthene   | <382    | ug/kg | 382    | 382   | 1  | 04/07/20 01:03 | 04/07/20 13:26 | 206-44-0  |      |
| Fluorene   | <382    | ug/kg | 382    | 382   | 1  | 04/07/20 01:03 | 04/07/20 13:26 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | <382    | ug/kg | 382    | 382   | 1  | 04/07/20 01:03 | 04/07/20 13:26 | 193-39-5  |      |
| 2-Methylnaphthalene  | <382    | ug/kg | 382    | 382   | 1  | 04/07/20 01:03 | 04/07/20 13:26 | 91-57-6   |      |
| Naphthalene  | <382    | ug/kg | 382    | 382   | 1  | 04/07/20 01:03 | 04/07/20 13:26 | 91-20-3   |      |
| Phenanthrene   | <382    | ug/kg | 382    | 382   | 1  | 04/07/20 01:03 | 04/07/20 13:26 | 85-01-8   |      |
| Pyrene   | <382    | ug/kg | 382    | 382   | 1  | 04/07/20 01:03 | 04/07/20 13:26 | 129-00-0  |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)   | 78      | %     | 37-111 |       | 1  | 04/07/20 01:03 | 04/07/20 13:26 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 75      | %     | 29-124 |       | 1  | 04/07/20 01:03 | 04/07/20 13:26 | 1718-51-0 |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253312

Sample: MW-116 (7-8) Lab ID: 50253312002 Collected: 03/30/20 10:40 Received: 03/31/20 08:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Acetone                        | <1330   | ug/kg  | 1330 | 1330 | 1  |          | 04/06/20 16:44 | 67-64-1    |      |
| Acrylonitrile                  | <133    | ug/kg  | 133  | 133  | 1  |          | 04/06/20 16:44 | 107-13-1   |      |
| tert-Amyl methyl ether         | <333    | ug/kg  | 333  | 333  | 1  |          | 04/06/20 16:44 | 994-05-8   | N2   |
| Benzene                        | <66.5   | ug/kg  | 66.5 | 66.5 | 1  |          | 04/06/20 16:44 | 71-43-2    |      |
| Bromobenzene                   | <133    | ug/kg  | 133  | 133  | 1  |          | 04/06/20 16:44 | 108-86-1   |      |
| Bromochloromethane             | <33.3   | ug/kg  | 66.5 | 33.3 | 1  |          | 04/06/20 16:44 | 74-97-5    |      |
| Bromodichloromethane           | <133    | ug/kg  | 133  | 133  | 1  |          | 04/06/20 16:44 | 75-27-4    |      |
| Bromoform                      | <133    | ug/kg  | 133  | 133  | 1  |          | 04/06/20 16:44 | 75-25-2    |      |
| Bromomethane                   | <266    | ug/kg  | 266  | 266  | 1  |          | 04/06/20 16:44 | 74-83-9    | L1   |
| 2-Butanone (MEK)               | <998    | ug/kg  | 998  | 998  | 1  |          | 04/06/20 16:44 | 78-93-3    |      |
| tert-Butyl Alcohol             | <3330   | ug/kg  | 3330 | 3330 | 1  |          | 04/06/20 16:44 | 75-65-0    |      |
| n-Butylbenzene                 | <66.5   | ug/kg  | 66.5 | 66.5 | 1  |          | 04/06/20 16:44 | 104-51-8   |      |
| sec-Butylbenzene               | <66.5   | ug/kg  | 66.5 | 66.5 | 1  |          | 04/06/20 16:44 | 135-98-8   |      |
| tert-Butylbenzene              | <66.5   | ug/kg  | 66.5 | 66.5 | 1  |          | 04/06/20 16:44 | 98-06-6    |      |
| Carbon disulfide               | <333    | ug/kg  | 333  | 333  | 1  |          | 04/06/20 16:44 | 75-15-0    |      |
| Carbon tetrachloride           | <66.5   | ug/kg  | 66.5 | 66.5 | 1  |          | 04/06/20 16:44 | 56-23-5    |      |
| Chlorobenzene                  | <66.5   | ug/kg  | 66.5 | 66.5 | 1  |          | 04/06/20 16:44 | 108-90-7   |      |
| Chloroethane                   | <333    | ug/kg  | 333  | 333  | 1  |          | 04/06/20 16:44 | 75-00-3    |      |
| Chloroform                     | <66.5   | ug/kg  | 66.5 | 66.5 | 1  |          | 04/06/20 16:44 | 67-66-3    |      |
| Chloromethane                  | <333    | ug/kg  | 333  | 333  | 1  |          | 04/06/20 16:44 | 74-87-3    |      |
| Cyclohexane                    | <665    | ug/kg  | 665  | 665  | 1  |          | 04/06/20 16:44 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <66.5   | ug/kg  | 66.5 | 66.5 | 1  |          | 04/06/20 16:44 | 96-12-8    |      |
| Dibromochloromethane           | <133    | ug/kg  | 133  | 133  | 1  |          | 04/06/20 16:44 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <66.5   | ug/kg  | 66.5 | 66.5 | 1  |          | 04/06/20 16:44 | 106-93-4   |      |
| Dibromomethane                 | <333    | ug/kg  | 333  | 333  | 1  |          | 04/06/20 16:44 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <133    | ug/kg  | 133  | 133  | 1  |          | 04/06/20 16:44 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <133    | ug/kg  | 133  | 133  | 1  |          | 04/06/20 16:44 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <133    | ug/kg  | 133  | 133  | 1  |          | 04/06/20 16:44 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <133    | ug/kg  | 1330 | 133  | 1  |          | 04/06/20 16:44 | 110-57-6   |      |
| Dichlorodifluoromethane        | <333    | ug/kg  | 333  | 333  | 1  |          | 04/06/20 16:44 | 75-71-8    |      |
| 1,1-Dichloroethane             | <66.5   | ug/kg  | 66.5 | 66.5 | 1  |          | 04/06/20 16:44 | 75-34-3    |      |
| 1,2-Dichloroethane             | <66.5   | ug/kg  | 66.5 | 66.5 | 1  |          | 04/06/20 16:44 | 107-06-2   |      |
| 1,1-Dichloroethene             | <66.5   | ug/kg  | 66.5 | 66.5 | 1  |          | 04/06/20 16:44 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <66.5   | ug/kg  | 66.5 | 66.5 | 1  |          | 04/06/20 16:44 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <66.5   | ug/kg  | 66.5 | 66.5 | 1  |          | 04/06/20 16:44 | 156-60-5   |      |
| 1,2-Dichloropropane            | <66.5   | ug/kg  | 66.5 | 66.5 | 1  |          | 04/06/20 16:44 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <133    | ug/kg  | 133  | 133  | 1  |          | 04/06/20 16:44 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <133    | ug/kg  | 133  | 133  | 1  |          | 04/06/20 16:44 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <266    | ug/kg  | 266  | 266  | 1  |          | 04/06/20 16:44 | 60-29-7    |      |
| Diisopropyl ether              | <333    | ug/kg  | 333  | 333  | 1  |          | 04/06/20 16:44 | 108-20-3   | N2   |
| Ethylbenzene                   | <66.5   | ug/kg  | 66.5 | 66.5 | 1  |          | 04/06/20 16:44 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <333    | ug/kg  | 333  | 333  | 1  |          | 04/06/20 16:44 | 637-92-3   | N2   |
| Hexachloroethane               | <399    | ug/kg  | 399  | 399  | 1  |          | 04/06/20 16:44 | 67-72-1    | N2   |
| 2-Hexanone                     | <3330   | ug/kg  | 3330 | 3330 | 1  |          | 04/06/20 16:44 | 591-78-6   |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale

Pace Project No.: 50253312

**Sample: MW-116 (7-8') Lab ID: 50253312002** Collected: 03/30/20 10:40 Received: 03/31/20 08:15 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Iodomethane                             | <133    | ug/kg | 1330   | 133  | 1  |          | 04/06/20 16:44 | 74-88-4     |      |
| Isopropylbenzene (Cumene)               | <333    | ug/kg | 333    | 333  | 1  |          | 04/06/20 16:44 | 98-82-8     |      |
| p-Isopropyltoluene                      | <33.3   | ug/kg | 66.5   | 33.3 | 1  |          | 04/06/20 16:44 | 99-87-6     |      |
| Methylene Chloride                      | <133    | ug/kg | 133    | 133  | 1  |          | 04/06/20 16:44 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <439    | ug/kg | 439    | 439  | 1  |          | 04/06/20 16:44 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <3330   | ug/kg | 3330   | 3330 | 1  |          | 04/06/20 16:44 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <333    | ug/kg | 333    | 333  | 1  |          | 04/06/20 16:44 | 1634-04-4   |      |
| Naphthalene                             | <439    | ug/kg | 439    | 439  | 1  |          | 04/06/20 16:44 | 91-20-3     |      |
| n-Propylbenzene                         | <133    | ug/kg | 133    | 133  | 1  |          | 04/06/20 16:44 | 103-65-1    |      |
| Styrene                                 | <66.5   | ug/kg | 66.5   | 66.5 | 1  |          | 04/06/20 16:44 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <133    | ug/kg | 133    | 133  | 1  |          | 04/06/20 16:44 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <66.5   | ug/kg | 66.5   | 66.5 | 1  |          | 04/06/20 16:44 | 79-34-5     |      |
| Tetrachloroethene                       | <66.5   | ug/kg | 66.5   | 66.5 | 1  |          | 04/06/20 16:44 | 127-18-4    |      |
| Tetrahydrofuran                         | <1330   | ug/kg | 1330   | 1330 | 1  |          | 04/06/20 16:44 | 109-99-9    | N2   |
| Toluene                                 | <133    | ug/kg | 133    | 133  | 1  |          | 04/06/20 16:44 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <333    | ug/kg | 333    | 333  | 1  |          | 04/06/20 16:44 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <333    | ug/kg | 333    | 333  | 1  |          | 04/06/20 16:44 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <66.5   | ug/kg | 66.5   | 66.5 | 1  |          | 04/06/20 16:44 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <66.5   | ug/kg | 66.5   | 66.5 | 1  |          | 04/06/20 16:44 | 79-00-5     |      |
| Trichloroethene                         | <66.5   | ug/kg | 66.5   | 66.5 | 1  |          | 04/06/20 16:44 | 79-01-6     |      |
| Trichlorofluoromethane                  | <133    | ug/kg | 133    | 133  | 1  |          | 04/06/20 16:44 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <133    | ug/kg | 133    | 133  | 1  |          | 04/06/20 16:44 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <333    | ug/kg | 333    | 333  | 1  |          | 04/06/20 16:44 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <133    | ug/kg | 133    | 133  | 1  |          | 04/06/20 16:44 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <133    | ug/kg | 133    | 133  | 1  |          | 04/06/20 16:44 | 108-67-8    |      |
| Vinyl chloride                          | <53.2   | ug/kg | 53.2   | 53.2 | 1  |          | 04/06/20 16:44 | 75-01-4     |      |
| m&p-Xylene                              | <33.3   | ug/kg | 66.5   | 33.3 | 1  |          | 04/06/20 16:44 | 179601-23-1 |      |
| o-Xylene                                | <33.3   | ug/kg | 66.5   | 33.3 | 1  |          | 04/06/20 16:44 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 116     | %     | 62-137 |      | 1  |          | 04/06/20 16:44 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 120     | %     | 64-139 |      | 1  |          | 04/06/20 16:44 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 107     | %     | 60-142 |      | 1  |          | 04/06/20 16:44 | 460-00-4    |      |

**Percent Moisture**

Analytical Method: SM 2540G  
Pace Analytical Services - Indianapolis

|                  |             |   |      |      |   |  |                |  |  |
|------------------|-------------|---|------|------|---|--|----------------|--|--|
| Percent Moisture | <b>13.8</b> | % | 0.10 | 0.10 | 1 |  | 04/04/20 11:26 |  |  |
|------------------|-------------|---|------|------|---|--|----------------|--|--|

**7196 Chromium, Hexavalent**

Analytical Method: EPA 7196A Preparation Method: EPA 3060A  
Pace Analytical Services - Indianapolis

|                      |      |       |     |     |   |                |                |            |  |
|----------------------|------|-------|-----|-----|---|----------------|----------------|------------|--|
| Chromium, Hexavalent | <2.3 | mg/kg | 2.3 | 2.3 | 1 | 04/17/20 09:08 | 04/18/20 10:42 | 18540-29-9 |  |
|----------------------|------|-------|-----|-----|---|----------------|----------------|------------|--|

**Trivalent Chromium Calculation**

Analytical Method: Trivalent Chromium Calculation  
Pace Analytical Services - Indianapolis

|                     |            |       |     |  |   |  |                |            |  |
|---------------------|------------|-------|-----|--|---|--|----------------|------------|--|
| Chromium, Trivalent | <b>3.9</b> | mg/kg | 1.0 |  | 1 |  | 04/23/20 07:45 | 16065-83-1 |  |
|---------------------|------------|-------|-----|--|---|--|----------------|------------|--|

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253312

**Sample: MW-117 (2-3)**      **Lab ID: 50253312003**      Collected: 03/30/20 11:10      Received: 03/31/20 08:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL   | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|-------|-------|----|----------------|----------------|------------|------|
| <b>6010 MET ICP</b>  |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050   |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Arsenic  | <2130   | ug/kg | 2130  | 2130  | 1  | 04/06/20 15:14 | 04/07/20 14:03 | 7440-38-2  |      |
| Barium   | 8430    | ug/kg | 1060  | 1060  | 1  | 04/06/20 15:14 | 04/07/20 14:03 | 7440-39-3  |      |
| Chromium   | 5790    | ug/kg | 1890  | 1890  | 1  | 04/08/20 13:34 | 04/09/20 03:27 | 7440-47-3  |      |
| Lead   | <10600  | ug/kg | 10600 | 10600 | 1  | 04/06/20 15:14 | 04/07/20 14:03 | 7439-92-1  |      |
| <b>6020 MET ICPMS</b>                                      |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B  |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Cadmium  | <220    | ug/kg | 220   | 220   | 1  | 04/06/20 00:53 | 04/06/20 11:54 | 7440-43-9  |      |
| Selenium   | 369     | ug/kg | 220   | 220   | 1  | 04/06/20 00:53 | 04/06/20 11:54 | 7782-49-2  |      |
| Silver   | <110    | ug/kg | 110   | 110   | 1  | 04/06/20 00:53 | 04/06/20 11:54 | 7440-22-4  |      |
| <b>7471 Mercury</b>  |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471   |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Mercury  | <65.4   | ug/kg | 117   | 65.4  | 1  | 04/08/20 12:06 | 04/09/20 08:20 | 7439-97-6  |      |
| <b>Percent Moisture</b>                                    |         |       |       |       |    |                |                |            |      |
| Analytical Method: SM 2540G                                |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Percent Moisture   | 10.1    | %     | 0.10  | 0.10  | 1  |                | 04/04/20 11:26 |            |      |
| <b>7196 Chromium, Hexavalent</b>                           |         |       |       |       |    |                |                |            |      |
| Analytical Method: EPA 7196A Preparation Method: EPA 3060A |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Chromium, Hexavalent                                       | <2.2    | mg/kg | 2.2   | 2.2   | 1  | 04/17/20 09:08 | 04/18/20 10:43 | 18540-29-9 |      |
| <b>Trivalent Chromium Calculation</b>                      |         |       |       |       |    |                |                |            |      |
| Analytical Method: Trivalent Chromium Calculation          |         |       |       |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |         |       |       |       |    |                |                |            |      |
| Chromium, Trivalent  | 5.8     | mg/kg | 1.0   |       | 1  |                | 04/23/20 07:45 | 16065-83-1 |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253312

**Sample: MW-117 (6-7') Lab ID: 50253312004** Collected: 03/30/20 11:20 Received: 03/31/20 08:15 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                 |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                      |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                         |         |       |        |       |    |                |                |           |      |
| n-Butanol   | <5000   | ug/kg | 5000   | 5000  | 1  |                | 04/05/20 13:49 | 71-36-3   |      |
| Ethanol   | <2840   | ug/kg | 2840   | 2840  | 1  |                | 04/05/20 13:49 | 64-17-5   | B0   |
| Methanol  | 5230    | ug/kg | 5000   | 5000  | 1  |                | 04/05/20 13:49 | 67-56-1   |      |
| <b>6010 MET ICP</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050        |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                         |         |       |        |       |    |                |                |           |      |
| Arsenic   | <2190   | ug/kg | 2190   | 2190  | 1  | 04/06/20 15:14 | 04/07/20 14:13 | 7440-38-2 |      |
| Barium  | 6150    | ug/kg | 1090   | 1090  | 1  | 04/06/20 15:14 | 04/07/20 14:13 | 7440-39-3 |      |
| Chromium  | 4070    | ug/kg | 2030   | 2030  | 1  | 04/08/20 13:34 | 04/09/20 03:29 | 7440-47-3 |      |
| Lead  | <10900  | ug/kg | 10900  | 10900 | 1  | 04/06/20 15:14 | 04/07/20 14:13 | 7439-92-1 |      |
| <b>6020 MET ICPMS</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B       |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                         |         |       |        |       |    |                |                |           |      |
| Cadmium   | <212    | ug/kg | 212    | 212   | 1  | 04/06/20 00:53 | 04/06/20 11:58 | 7440-43-9 |      |
| Selenium  | <1060   | ug/kg | 1060   | 1060  | 5  | 04/06/20 00:53 | 04/06/20 10:13 | 7782-49-2 | D3   |
| Silver  | <106    | ug/kg | 106    | 106   | 1  | 04/06/20 00:53 | 04/06/20 11:58 | 7440-22-4 |      |
| <b>7471 Mercury</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471        |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                         |         |       |        |       |    |                |                |           |      |
| Mercury   | <64.3   | ug/kg | 115    | 64.3  | 1  | 04/08/20 12:06 | 04/09/20 08:22 | 7439-97-6 |      |
| <b>8270 PAH Soil</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                         |         |       |        |       |    |                |                |           |      |
| Acenaphthene  | <375    | ug/kg | 375    | 375   | 1  | 04/07/20 01:03 | 04/07/20 15:08 | 83-32-9   |      |
| Acenaphthylene  | <375    | ug/kg | 375    | 375   | 1  | 04/07/20 01:03 | 04/07/20 15:08 | 208-96-8  |      |
| Anthracene  | <375    | ug/kg | 375    | 375   | 1  | 04/07/20 01:03 | 04/07/20 15:08 | 120-12-7  |      |
| Benzo(a)anthracene  | <375    | ug/kg | 375    | 375   | 1  | 04/07/20 01:03 | 04/07/20 15:08 | 56-55-3   |      |
| Benzo(a)pyrene  | <375    | ug/kg | 375    | 375   | 1  | 04/07/20 01:03 | 04/07/20 15:08 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <375    | ug/kg | 375    | 375   | 1  | 04/07/20 01:03 | 04/07/20 15:08 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <375    | ug/kg | 375    | 375   | 1  | 04/07/20 01:03 | 04/07/20 15:08 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <375    | ug/kg | 375    | 375   | 1  | 04/07/20 01:03 | 04/07/20 15:08 | 207-08-9  |      |
| Chrysene  | <375    | ug/kg | 375    | 375   | 1  | 04/07/20 01:03 | 04/07/20 15:08 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | <375    | ug/kg | 375    | 375   | 1  | 04/07/20 01:03 | 04/07/20 15:08 | 53-70-3   |      |
| Fluoranthene  | <375    | ug/kg | 375    | 375   | 1  | 04/07/20 01:03 | 04/07/20 15:08 | 206-44-0  |      |
| Fluorene  | <375    | ug/kg | 375    | 375   | 1  | 04/07/20 01:03 | 04/07/20 15:08 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene  | <375    | ug/kg | 375    | 375   | 1  | 04/07/20 01:03 | 04/07/20 15:08 | 193-39-5  |      |
| 2-Methylnaphthalene   | <375    | ug/kg | 375    | 375   | 1  | 04/07/20 01:03 | 04/07/20 15:08 | 91-57-6   |      |
| Naphthalene   | <375    | ug/kg | 375    | 375   | 1  | 04/07/20 01:03 | 04/07/20 15:08 | 91-20-3   |      |
| Phenanthrene  | <375    | ug/kg | 375    | 375   | 1  | 04/07/20 01:03 | 04/07/20 15:08 | 85-01-8   |      |
| Pyrene  | <375    | ug/kg | 375    | 375   | 1  | 04/07/20 01:03 | 04/07/20 15:08 | 129-00-0  |      |
| <b>Surrogates</b>   |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)  | 71      | %     | 37-111 |       | 1  | 04/07/20 01:03 | 04/07/20 15:08 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 73      | %     | 29-124 |       | 1  | 04/07/20 01:03 | 04/07/20 15:08 | 1718-51-0 |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale

Pace Project No.: 50253312

**Sample: MW-117 (6-7)**      **Lab ID: 50253312004**      Collected: 03/30/20 11:20      Received: 03/31/20 08:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Acetone                        | <2380   | ug/kg  | 2380 | 2380 | 1  |          | 04/06/20 17:16 | 67-64-1    |      |
| Acrylonitrile                  | <238    | ug/kg  | 238  | 238  | 1  |          | 04/06/20 17:16 | 107-13-1   |      |
| tert-Amylmethyl ether          | <595    | ug/kg  | 595  | 595  | 1  |          | 04/06/20 17:16 | 994-05-8   | N2   |
| Benzene                        | <119    | ug/kg  | 119  | 119  | 1  |          | 04/06/20 17:16 | 71-43-2    |      |
| Bromobenzene                   | <238    | ug/kg  | 238  | 238  | 1  |          | 04/06/20 17:16 | 108-86-1   |      |
| Bromochloromethane             | <59.5   | ug/kg  | 119  | 59.5 | 1  |          | 04/06/20 17:16 | 74-97-5    |      |
| Bromodichloromethane           | <238    | ug/kg  | 238  | 238  | 1  |          | 04/06/20 17:16 | 75-27-4    |      |
| Bromoform                      | <238    | ug/kg  | 238  | 238  | 1  |          | 04/06/20 17:16 | 75-25-2    |      |
| Bromomethane                   | <476    | ug/kg  | 476  | 476  | 1  |          | 04/06/20 17:16 | 74-83-9    | L1   |
| 2-Butanone (MEK)               | <1790   | ug/kg  | 1790 | 1790 | 1  |          | 04/06/20 17:16 | 78-93-3    |      |
| tert-Butyl Alcohol             | <5950   | ug/kg  | 5950 | 5950 | 1  |          | 04/06/20 17:16 | 75-65-0    |      |
| n-Butylbenzene                 | <119    | ug/kg  | 119  | 119  | 1  |          | 04/06/20 17:16 | 104-51-8   |      |
| sec-Butylbenzene               | <119    | ug/kg  | 119  | 119  | 1  |          | 04/06/20 17:16 | 135-98-8   |      |
| tert-Butylbenzene              | <119    | ug/kg  | 119  | 119  | 1  |          | 04/06/20 17:16 | 98-06-6    |      |
| Carbon disulfide               | <595    | ug/kg  | 595  | 595  | 1  |          | 04/06/20 17:16 | 75-15-0    |      |
| Carbon tetrachloride           | <119    | ug/kg  | 119  | 119  | 1  |          | 04/06/20 17:16 | 56-23-5    |      |
| Chlorobenzene                  | <119    | ug/kg  | 119  | 119  | 1  |          | 04/06/20 17:16 | 108-90-7   |      |
| Chloroethane                   | <595    | ug/kg  | 595  | 595  | 1  |          | 04/06/20 17:16 | 75-00-3    |      |
| Chloroform                     | <119    | ug/kg  | 119  | 119  | 1  |          | 04/06/20 17:16 | 67-66-3    |      |
| Chloromethane                  | <595    | ug/kg  | 595  | 595  | 1  |          | 04/06/20 17:16 | 74-87-3    |      |
| Cyclohexane                    | <1190   | ug/kg  | 1190 | 1190 | 1  |          | 04/06/20 17:16 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <119    | ug/kg  | 119  | 119  | 1  |          | 04/06/20 17:16 | 96-12-8    |      |
| Dibromochloromethane           | <238    | ug/kg  | 238  | 238  | 1  |          | 04/06/20 17:16 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <119    | ug/kg  | 119  | 119  | 1  |          | 04/06/20 17:16 | 106-93-4   |      |
| Dibromomethane                 | <595    | ug/kg  | 595  | 595  | 1  |          | 04/06/20 17:16 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <238    | ug/kg  | 238  | 238  | 1  |          | 04/06/20 17:16 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <238    | ug/kg  | 238  | 238  | 1  |          | 04/06/20 17:16 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <238    | ug/kg  | 238  | 238  | 1  |          | 04/06/20 17:16 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <238    | ug/kg  | 2380 | 238  | 1  |          | 04/06/20 17:16 | 110-57-6   |      |
| Dichlorodifluoromethane        | <595    | ug/kg  | 595  | 595  | 1  |          | 04/06/20 17:16 | 75-71-8    |      |
| 1,1-Dichloroethane             | <119    | ug/kg  | 119  | 119  | 1  |          | 04/06/20 17:16 | 75-34-3    |      |
| 1,2-Dichloroethane             | <119    | ug/kg  | 119  | 119  | 1  |          | 04/06/20 17:16 | 107-06-2   |      |
| 1,1-Dichloroethene             | <119    | ug/kg  | 119  | 119  | 1  |          | 04/06/20 17:16 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <119    | ug/kg  | 119  | 119  | 1  |          | 04/06/20 17:16 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <119    | ug/kg  | 119  | 119  | 1  |          | 04/06/20 17:16 | 156-60-5   |      |
| 1,2-Dichloropropane            | <119    | ug/kg  | 119  | 119  | 1  |          | 04/06/20 17:16 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <238    | ug/kg  | 238  | 238  | 1  |          | 04/06/20 17:16 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <238    | ug/kg  | 238  | 238  | 1  |          | 04/06/20 17:16 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <476    | ug/kg  | 476  | 476  | 1  |          | 04/06/20 17:16 | 60-29-7    |      |
| Diisopropyl ether              | <595    | ug/kg  | 595  | 595  | 1  |          | 04/06/20 17:16 | 108-20-3   | N2   |
| Ethylbenzene                   | <119    | ug/kg  | 119  | 119  | 1  |          | 04/06/20 17:16 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <595    | ug/kg  | 595  | 595  | 1  |          | 04/06/20 17:16 | 637-92-3   | N2   |
| Hexachloroethane               | <714    | ug/kg  | 714  | 714  | 1  |          | 04/06/20 17:16 | 67-72-1    | N2   |
| 2-Hexanone                     | <5950   | ug/kg  | 5950 | 5950 | 1  |          | 04/06/20 17:16 | 591-78-6   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253312

**Sample: MW-117 (6-7)**      **Lab ID: 50253312004**      Collected: 03/30/20 11:20      Received: 03/31/20 08:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Iodomethane                             | <238    | ug/kg | 2380   | 238  | 1  |          | 04/06/20 17:16 | 74-88-4     |      |
| Isopropylbenzene (Cumene)               | <595    | ug/kg | 595    | 595  | 1  |          | 04/06/20 17:16 | 98-82-8     |      |
| p-Isopropyltoluene                      | <59.5   | ug/kg | 119    | 59.5 | 1  |          | 04/06/20 17:16 | 99-87-6     |      |
| Methylene Chloride                      | <238    | ug/kg | 238    | 238  | 1  |          | 04/06/20 17:16 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <786    | ug/kg | 786    | 786  | 1  |          | 04/06/20 17:16 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <5950   | ug/kg | 5950   | 5950 | 1  |          | 04/06/20 17:16 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <595    | ug/kg | 595    | 595  | 1  |          | 04/06/20 17:16 | 1634-04-4   |      |
| Naphthalene                             | <786    | ug/kg | 786    | 786  | 1  |          | 04/06/20 17:16 | 91-20-3     |      |
| n-Propylbenzene                         | <238    | ug/kg | 238    | 238  | 1  |          | 04/06/20 17:16 | 103-65-1    |      |
| Styrene                                 | <119    | ug/kg | 119    | 119  | 1  |          | 04/06/20 17:16 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <238    | ug/kg | 238    | 238  | 1  |          | 04/06/20 17:16 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <119    | ug/kg | 119    | 119  | 1  |          | 04/06/20 17:16 | 79-34-5     |      |
| Tetrachloroethene                       | <119    | ug/kg | 119    | 119  | 1  |          | 04/06/20 17:16 | 127-18-4    |      |
| Tetrahydrofuran                         | <2380   | ug/kg | 2380   | 2380 | 1  |          | 04/06/20 17:16 | 109-99-9    | N2   |
| Toluene                                 | <238    | ug/kg | 238    | 238  | 1  |          | 04/06/20 17:16 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <595    | ug/kg | 595    | 595  | 1  |          | 04/06/20 17:16 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <595    | ug/kg | 595    | 595  | 1  |          | 04/06/20 17:16 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <119    | ug/kg | 119    | 119  | 1  |          | 04/06/20 17:16 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <119    | ug/kg | 119    | 119  | 1  |          | 04/06/20 17:16 | 79-00-5     |      |
| Trichloroethene                         | <119    | ug/kg | 119    | 119  | 1  |          | 04/06/20 17:16 | 79-01-6     |      |
| Trichlorofluoromethane                  | <238    | ug/kg | 238    | 238  | 1  |          | 04/06/20 17:16 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <238    | ug/kg | 238    | 238  | 1  |          | 04/06/20 17:16 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <595    | ug/kg | 595    | 595  | 1  |          | 04/06/20 17:16 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <238    | ug/kg | 238    | 238  | 1  |          | 04/06/20 17:16 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <238    | ug/kg | 238    | 238  | 1  |          | 04/06/20 17:16 | 108-67-8    |      |
| Vinyl chloride                          | <95.2   | ug/kg | 95.2   | 95.2 | 1  |          | 04/06/20 17:16 | 75-01-4     |      |
| m&p-Xylene                              | <59.5   | ug/kg | 119    | 59.5 | 1  |          | 04/06/20 17:16 | 179601-23-1 |      |
| o-Xylene                                | <59.5   | ug/kg | 119    | 59.5 | 1  |          | 04/06/20 17:16 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 109     | %     | 62-137 |      | 1  |          | 04/06/20 17:16 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 110     | %     | 64-139 |      | 1  |          | 04/06/20 17:16 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 102     | %     | 60-142 |      | 1  |          | 04/06/20 17:16 | 460-00-4    |      |

**Percent Moisture**

Analytical Method: SM 2540G  
Pace Analytical Services - Indianapolis

Percent Moisture      **12.0**      %      0.10      0.10      1      04/04/20 11:26

**7196 Chromium, Hexavalent**

Analytical Method: EPA 7196A      Preparation Method: EPA 3060A  
Pace Analytical Services - Indianapolis

Chromium, Hexavalent      <2.3      mg/kg      2.3      2.3      1      04/17/20 09:08      04/18/20 10:43      18540-29-9

**Trivalent Chromium Calculation**

Analytical Method: Trivalent Chromium Calculation  
Pace Analytical Services - Indianapolis

Chromium, Trivalent      **4.1**      mg/kg      1.0      1      04/23/20 07:45      16065-83-1

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253312

**Sample: MW-118 (2-3)**      **Lab ID: 50253312005**      Collected: 03/30/20 12:00      Received: 03/31/20 08:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results         | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--|-----------------|-------|------|------|----|----------------|----------------|------------|------|
| <b>6010 MET ICP</b>  |                 |       |      |      |    |                |                |            |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050   |                 |       |      |      |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |                 |       |      |      |    |                |                |            |      |
| Arsenic  | <b>17000</b>    | ug/kg | 1970 | 1970 | 1  | 04/06/20 15:14 | 04/07/20 14:19 | 7440-38-2  |      |
| Barium   | <b>7340</b>     | ug/kg | 987  | 987  | 1  | 04/06/20 15:14 | 04/07/20 14:19 | 7440-39-3  |      |
| Chromium   | <b>4900</b>     | ug/kg | 1850 | 1850 | 1  | 04/08/20 13:34 | 04/09/20 03:31 | 7440-47-3  |      |
| Lead   | <b>&lt;9870</b> | ug/kg | 9870 | 9870 | 1  | 04/06/20 15:14 | 04/07/20 14:19 | 7439-92-1  |      |
| <b>6020 MET ICPMS</b>                                      |                 |       |      |      |    |                |                |            |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B  |                 |       |      |      |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |                 |       |      |      |    |                |                |            |      |
| Cadmium  | <b>&lt;200</b>  | ug/kg | 200  | 200  | 1  | 04/06/20 00:53 | 04/06/20 12:08 | 7440-43-9  |      |
| Selenium   | <b>&lt;200</b>  | ug/kg | 200  | 200  | 1  | 04/06/20 00:53 | 04/06/20 12:08 | 7782-49-2  |      |
| Silver   | <b>&lt;99.8</b> | ug/kg | 99.8 | 99.8 | 1  | 04/06/20 00:53 | 04/06/20 12:08 | 7440-22-4  |      |
| <b>7471 Mercury</b>  |                 |       |      |      |    |                |                |            |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471   |                 |       |      |      |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |                 |       |      |      |    |                |                |            |      |
| Mercury  | <b>&lt;64.0</b> | ug/kg | 114  | 64.0 | 1  | 04/08/20 12:06 | 04/09/20 08:24 | 7439-97-6  |      |
| <b>Percent Moisture</b>                                    |                 |       |      |      |    |                |                |            |      |
| Analytical Method: SM 2540G                                |                 |       |      |      |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |                 |       |      |      |    |                |                |            |      |
| Percent Moisture   | <b>6.9</b>      | %     | 0.10 | 0.10 | 1  |                | 04/04/20 11:27 |            |      |
| <b>7196 Chromium, Hexavalent</b>                           |                 |       |      |      |    |                |                |            |      |
| Analytical Method: EPA 7196A Preparation Method: EPA 3060A |                 |       |      |      |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |                 |       |      |      |    |                |                |            |      |
| Chromium, Hexavalent                                       | <b>&lt;2.2</b>  | mg/kg | 2.2  | 2.2  | 1  | 04/17/20 09:08 | 04/18/20 10:44 | 18540-29-9 |      |
| <b>Trivalent Chromium Calculation</b>                      |                 |       |      |      |    |                |                |            |      |
| Analytical Method: Trivalent Chromium Calculation          |                 |       |      |      |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                    |                 |       |      |      |    |                |                |            |      |
| Chromium, Trivalent  | <b>4.9</b>      | mg/kg | 1.0  |      | 1  |                | 04/23/20 07:45 | 16065-83-1 |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253312

**Sample: MW-118 (10-11')**      **Lab ID: 50253312006**      Collected: 03/30/20 12:10      Received: 03/31/20 08:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                      |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                           |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |      |    |                |                |           |      |
| n-Butanol  | <4690   | ug/kg | 4690   | 4690 | 1  |                | 04/05/20 13:58 | 71-36-3   |      |
| Ethanol  | <2660   | ug/kg | 2660   | 2660 | 1  |                | 04/05/20 13:58 | 64-17-5   | B0   |
| Methanol   | 17100   | ug/kg | 4690   | 4690 | 1  |                | 04/05/20 13:58 | 67-56-1   |      |
| <b>6010 MET ICP</b>  |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050        |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |      |    |                |                |           |      |
| Arsenic  | <1980   | ug/kg | 1980   | 1980 | 1  | 04/06/20 15:14 | 04/07/20 14:22 | 7440-38-2 |      |
| Barium   | 6390    | ug/kg | 992    | 992  | 1  | 04/06/20 15:14 | 04/07/20 14:22 | 7440-39-3 |      |
| Chromium   | 4510    | ug/kg | 1900   | 1900 | 1  | 04/08/20 13:34 | 04/09/20 03:34 | 7440-47-3 |      |
| Lead   | <9920   | ug/kg | 9920   | 9920 | 1  | 04/06/20 15:14 | 04/07/20 14:22 | 7439-92-1 |      |
| <b>6020 MET ICPMS</b>  |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B       |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |      |    |                |                |           |      |
| Cadmium  | <197    | ug/kg | 197    | 197  | 1  | 04/06/20 00:53 | 04/06/20 12:21 | 7440-43-9 |      |
| Selenium   | <197    | ug/kg | 197    | 197  | 1  | 04/06/20 00:53 | 04/06/20 12:21 | 7782-49-2 |      |
| Silver   | <98.4   | ug/kg | 98.4   | 98.4 | 1  | 04/06/20 00:53 | 04/06/20 12:21 | 7440-22-4 |      |
| <b>7471 Mercury</b>  |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 7471      Preparation Method: EPA 7471        |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |      |    |                |                |           |      |
| Mercury  | <58.3   | ug/kg | 104    | 58.3 | 1  | 04/08/20 12:06 | 04/09/20 08:27 | 7439-97-6 |      |
| <b>8270 PAH Soil</b>   |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |      |    |                |                |           |      |
| Acenaphthene   | <350    | ug/kg | 350    | 350  | 1  | 04/07/20 01:03 | 04/07/20 15:25 | 83-32-9   |      |
| Acenaphthylene   | <350    | ug/kg | 350    | 350  | 1  | 04/07/20 01:03 | 04/07/20 15:25 | 208-96-8  |      |
| Anthracene   | <350    | ug/kg | 350    | 350  | 1  | 04/07/20 01:03 | 04/07/20 15:25 | 120-12-7  |      |
| Benzo(a)anthracene   | <350    | ug/kg | 350    | 350  | 1  | 04/07/20 01:03 | 04/07/20 15:25 | 56-55-3   |      |
| Benzo(a)pyrene   | <350    | ug/kg | 350    | 350  | 1  | 04/07/20 01:03 | 04/07/20 15:25 | 50-32-8   |      |
| Benzo(b)fluoranthene   | <350    | ug/kg | 350    | 350  | 1  | 04/07/20 01:03 | 04/07/20 15:25 | 205-99-2  |      |
| Benzo(g,h,i)perylene   | <350    | ug/kg | 350    | 350  | 1  | 04/07/20 01:03 | 04/07/20 15:25 | 191-24-2  |      |
| Benzo(k)fluoranthene   | <350    | ug/kg | 350    | 350  | 1  | 04/07/20 01:03 | 04/07/20 15:25 | 207-08-9  |      |
| Chrysene   | <350    | ug/kg | 350    | 350  | 1  | 04/07/20 01:03 | 04/07/20 15:25 | 218-01-9  |      |
| Dibenz(a,h)anthracene  | <350    | ug/kg | 350    | 350  | 1  | 04/07/20 01:03 | 04/07/20 15:25 | 53-70-3   |      |
| Fluoranthene   | <350    | ug/kg | 350    | 350  | 1  | 04/07/20 01:03 | 04/07/20 15:25 | 206-44-0  |      |
| Fluorene   | <350    | ug/kg | 350    | 350  | 1  | 04/07/20 01:03 | 04/07/20 15:25 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | <350    | ug/kg | 350    | 350  | 1  | 04/07/20 01:03 | 04/07/20 15:25 | 193-39-5  |      |
| 2-Methylnaphthalene  | <350    | ug/kg | 350    | 350  | 1  | 04/07/20 01:03 | 04/07/20 15:25 | 91-57-6   |      |
| Naphthalene  | <350    | ug/kg | 350    | 350  | 1  | 04/07/20 01:03 | 04/07/20 15:25 | 91-20-3   |      |
| Phenanthrene   | <350    | ug/kg | 350    | 350  | 1  | 04/07/20 01:03 | 04/07/20 15:25 | 85-01-8   |      |
| Pyrene   | <350    | ug/kg | 350    | 350  | 1  | 04/07/20 01:03 | 04/07/20 15:25 | 129-00-0  |      |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |           |      |
| 2-Fluorobiphenyl (S)   | 68      | %     | 37-111 |      | 1  | 04/07/20 01:03 | 04/07/20 15:25 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 75      | %     | 29-124 |      | 1  | 04/07/20 01:03 | 04/07/20 15:25 | 1718-51-0 |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253312

Sample: MW-118 (10-11') Lab ID: 50253312006 Collected: 03/30/20 12:10 Received: 03/31/20 08:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Acetone                        | <1730   | ug/kg  | 1730 | 1730 | 1  |          | 04/06/20 17:49 | 67-64-1    |      |
| Acrylonitrile                  | <173    | ug/kg  | 173  | 173  | 1  |          | 04/06/20 17:49 | 107-13-1   |      |
| tert-Amylmethyl ether          | <433    | ug/kg  | 433  | 433  | 1  |          | 04/06/20 17:49 | 994-05-8   | N2   |
| Benzene                        | <86.6   | ug/kg  | 86.6 | 86.6 | 1  |          | 04/06/20 17:49 | 71-43-2    |      |
| Bromobenzene                   | <173    | ug/kg  | 173  | 173  | 1  |          | 04/06/20 17:49 | 108-86-1   |      |
| Bromochloromethane             | <43.3   | ug/kg  | 86.6 | 43.3 | 1  |          | 04/06/20 17:49 | 74-97-5    |      |
| Bromodichloromethane           | <173    | ug/kg  | 173  | 173  | 1  |          | 04/06/20 17:49 | 75-27-4    |      |
| Bromoform                      | <173    | ug/kg  | 173  | 173  | 1  |          | 04/06/20 17:49 | 75-25-2    |      |
| Bromomethane                   | <347    | ug/kg  | 347  | 347  | 1  |          | 04/06/20 17:49 | 74-83-9    | L1   |
| 2-Butanone (MEK)               | <1300   | ug/kg  | 1300 | 1300 | 1  |          | 04/06/20 17:49 | 78-93-3    |      |
| tert-Butyl Alcohol             | <4330   | ug/kg  | 4330 | 4330 | 1  |          | 04/06/20 17:49 | 75-65-0    |      |
| n-Butylbenzene                 | <86.6   | ug/kg  | 86.6 | 86.6 | 1  |          | 04/06/20 17:49 | 104-51-8   |      |
| sec-Butylbenzene               | <86.6   | ug/kg  | 86.6 | 86.6 | 1  |          | 04/06/20 17:49 | 135-98-8   |      |
| tert-Butylbenzene              | <86.6   | ug/kg  | 86.6 | 86.6 | 1  |          | 04/06/20 17:49 | 98-06-6    |      |
| Carbon disulfide               | <433    | ug/kg  | 433  | 433  | 1  |          | 04/06/20 17:49 | 75-15-0    |      |
| Carbon tetrachloride           | <86.6   | ug/kg  | 86.6 | 86.6 | 1  |          | 04/06/20 17:49 | 56-23-5    |      |
| Chlorobenzene                  | <86.6   | ug/kg  | 86.6 | 86.6 | 1  |          | 04/06/20 17:49 | 108-90-7   |      |
| Chloroethane                   | <433    | ug/kg  | 433  | 433  | 1  |          | 04/06/20 17:49 | 75-00-3    |      |
| Chloroform                     | <86.6   | ug/kg  | 86.6 | 86.6 | 1  |          | 04/06/20 17:49 | 67-66-3    |      |
| Chloromethane                  | <433    | ug/kg  | 433  | 433  | 1  |          | 04/06/20 17:49 | 74-87-3    |      |
| Cyclohexane                    | <866    | ug/kg  | 866  | 866  | 1  |          | 04/06/20 17:49 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <86.6   | ug/kg  | 86.6 | 86.6 | 1  |          | 04/06/20 17:49 | 96-12-8    |      |
| Dibromochloromethane           | <173    | ug/kg  | 173  | 173  | 1  |          | 04/06/20 17:49 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <86.6   | ug/kg  | 86.6 | 86.6 | 1  |          | 04/06/20 17:49 | 106-93-4   |      |
| Dibromomethane                 | <433    | ug/kg  | 433  | 433  | 1  |          | 04/06/20 17:49 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <173    | ug/kg  | 173  | 173  | 1  |          | 04/06/20 17:49 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <173    | ug/kg  | 173  | 173  | 1  |          | 04/06/20 17:49 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <173    | ug/kg  | 173  | 173  | 1  |          | 04/06/20 17:49 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <173    | ug/kg  | 1730 | 173  | 1  |          | 04/06/20 17:49 | 110-57-6   |      |
| Dichlorodifluoromethane        | <433    | ug/kg  | 433  | 433  | 1  |          | 04/06/20 17:49 | 75-71-8    |      |
| 1,1-Dichloroethane             | <86.6   | ug/kg  | 86.6 | 86.6 | 1  |          | 04/06/20 17:49 | 75-34-3    |      |
| 1,2-Dichloroethane             | <86.6   | ug/kg  | 86.6 | 86.6 | 1  |          | 04/06/20 17:49 | 107-06-2   |      |
| 1,1-Dichloroethene             | <86.6   | ug/kg  | 86.6 | 86.6 | 1  |          | 04/06/20 17:49 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <86.6   | ug/kg  | 86.6 | 86.6 | 1  |          | 04/06/20 17:49 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <86.6   | ug/kg  | 86.6 | 86.6 | 1  |          | 04/06/20 17:49 | 156-60-5   |      |
| 1,2-Dichloropropane            | <86.6   | ug/kg  | 86.6 | 86.6 | 1  |          | 04/06/20 17:49 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <173    | ug/kg  | 173  | 173  | 1  |          | 04/06/20 17:49 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <173    | ug/kg  | 173  | 173  | 1  |          | 04/06/20 17:49 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <347    | ug/kg  | 347  | 347  | 1  |          | 04/06/20 17:49 | 60-29-7    |      |
| Diisopropyl ether              | <433    | ug/kg  | 433  | 433  | 1  |          | 04/06/20 17:49 | 108-20-3   | N2   |
| Ethylbenzene                   | <86.6   | ug/kg  | 86.6 | 86.6 | 1  |          | 04/06/20 17:49 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <433    | ug/kg  | 433  | 433  | 1  |          | 04/06/20 17:49 | 637-92-3   | N2   |
| Hexachloroethane               | <520    | ug/kg  | 520  | 520  | 1  |          | 04/06/20 17:49 | 67-72-1    | N2   |
| 2-Hexanone                     | <4330   | ug/kg  | 4330 | 4330 | 1  |          | 04/06/20 17:49 | 591-78-6   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253312

**Sample: MW-118 (10-11')**      **Lab ID: 50253312006**      Collected: 03/30/20 12:10      Received: 03/31/20 08:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Iodomethane                             | <173    | ug/kg | 1730   | 173  | 1  |          | 04/06/20 17:49 | 74-88-4     |      |
| Isopropylbenzene (Cumene)               | <433    | ug/kg | 433    | 433  | 1  |          | 04/06/20 17:49 | 98-82-8     |      |
| p-Isopropyltoluene                      | <43.3   | ug/kg | 86.6   | 43.3 | 1  |          | 04/06/20 17:49 | 99-87-6     |      |
| Methylene Chloride                      | <173    | ug/kg | 173    | 173  | 1  |          | 04/06/20 17:49 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <572    | ug/kg | 572    | 572  | 1  |          | 04/06/20 17:49 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <4330   | ug/kg | 4330   | 4330 | 1  |          | 04/06/20 17:49 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <433    | ug/kg | 433    | 433  | 1  |          | 04/06/20 17:49 | 1634-04-4   |      |
| Naphthalene                             | <572    | ug/kg | 572    | 572  | 1  |          | 04/06/20 17:49 | 91-20-3     |      |
| n-Propylbenzene                         | <173    | ug/kg | 173    | 173  | 1  |          | 04/06/20 17:49 | 103-65-1    |      |
| Styrene                                 | <86.6   | ug/kg | 86.6   | 86.6 | 1  |          | 04/06/20 17:49 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <173    | ug/kg | 173    | 173  | 1  |          | 04/06/20 17:49 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <86.6   | ug/kg | 86.6   | 86.6 | 1  |          | 04/06/20 17:49 | 79-34-5     |      |
| Tetrachloroethene                       | <86.6   | ug/kg | 86.6   | 86.6 | 1  |          | 04/06/20 17:49 | 127-18-4    |      |
| Tetrahydrofuran                         | <1730   | ug/kg | 1730   | 1730 | 1  |          | 04/06/20 17:49 | 109-99-9    | N2   |
| Toluene                                 | <173    | ug/kg | 173    | 173  | 1  |          | 04/06/20 17:49 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <433    | ug/kg | 433    | 433  | 1  |          | 04/06/20 17:49 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <433    | ug/kg | 433    | 433  | 1  |          | 04/06/20 17:49 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <86.6   | ug/kg | 86.6   | 86.6 | 1  |          | 04/06/20 17:49 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <86.6   | ug/kg | 86.6   | 86.6 | 1  |          | 04/06/20 17:49 | 79-00-5     |      |
| Trichloroethene                         | <86.6   | ug/kg | 86.6   | 86.6 | 1  |          | 04/06/20 17:49 | 79-01-6     |      |
| Trichlorofluoromethane                  | <173    | ug/kg | 173    | 173  | 1  |          | 04/06/20 17:49 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <173    | ug/kg | 173    | 173  | 1  |          | 04/06/20 17:49 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <433    | ug/kg | 433    | 433  | 1  |          | 04/06/20 17:49 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <173    | ug/kg | 173    | 173  | 1  |          | 04/06/20 17:49 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <173    | ug/kg | 173    | 173  | 1  |          | 04/06/20 17:49 | 108-67-8    |      |
| Vinyl chloride                          | <69.3   | ug/kg | 69.3   | 69.3 | 1  |          | 04/06/20 17:49 | 75-01-4     |      |
| m&p-Xylene                              | <43.3   | ug/kg | 86.6   | 43.3 | 1  |          | 04/06/20 17:49 | 179601-23-1 |      |
| o-Xylene                                | <43.3   | ug/kg | 86.6   | 43.3 | 1  |          | 04/06/20 17:49 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 101     | %     | 62-137 |      | 1  |          | 04/06/20 17:49 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 106     | %     | 64-139 |      | 1  |          | 04/06/20 17:49 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 97      | %     | 60-142 |      | 1  |          | 04/06/20 17:49 | 460-00-4    |      |

**Percent Moisture**

Analytical Method: SM 2540G  
Pace Analytical Services - Indianapolis

Percent Moisture      **6.2**      %      0.10      0.10      1      04/04/20 11:27

**7196 Chromium, Hexavalent**

Analytical Method: EPA 7196A      Preparation Method: EPA 3060A  
Pace Analytical Services - Indianapolis

Chromium, Hexavalent      <2.1      mg/kg      2.1      2.1      1      04/17/20 09:08      04/18/20 10:44      18540-29-9

**Trivalent Chromium Calculation**

Analytical Method: Trivalent Chromium Calculation  
Pace Analytical Services - Indianapolis

Chromium, Trivalent      **4.5**      mg/kg      1.0           1      04/23/20 07:45      16065-83-1

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253312

**Sample: Dup-1**      **Lab ID: 50253312007**      Collected: 03/30/20 12:00      Received: 03/31/20 08:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                      |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                           |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| n-Butanol  | <4980   | ug/kg | 4980   | 4980  | 1  |                | 04/05/20 14:08 | 71-36-3   |      |
| Ethanol  | <2830   | ug/kg | 2830   | 2830  | 1  |                | 04/05/20 14:08 | 64-17-5   | B0   |
| Methanol   | 5610    | ug/kg | 4980   | 4980  | 1  |                | 04/05/20 14:08 | 67-56-1   |      |
| <b>6010 MET ICP</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050        |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Arsenic  | <2090   | ug/kg | 2090   | 2090  | 1  | 04/06/20 15:14 | 04/07/20 14:24 | 7440-38-2 |      |
| Barium   | 14200   | ug/kg | 1050   | 1050  | 1  | 04/06/20 15:14 | 04/07/20 14:24 | 7440-39-3 |      |
| Chromium   | 8540    | ug/kg | 2230   | 2230  | 1  | 04/08/20 13:34 | 04/09/20 03:40 | 7440-47-3 |      |
| Lead   | <10500  | ug/kg | 10500  | 10500 | 1  | 04/06/20 15:14 | 04/07/20 14:24 | 7439-92-1 |      |
| <b>6020 MET ICPMS</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B       |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Cadmium  | <209    | ug/kg | 209    | 209   | 1  | 04/06/20 00:53 | 04/06/20 12:26 | 7440-43-9 |      |
| Selenium   | 296     | ug/kg | 209    | 209   | 1  | 04/06/20 00:53 | 04/06/20 12:26 | 7782-49-2 |      |
| Silver   | <104    | ug/kg | 104    | 104   | 1  | 04/06/20 00:53 | 04/06/20 12:26 | 7440-22-4 |      |
| <b>7471 Mercury</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7471      Preparation Method: EPA 7471        |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Mercury  | <61.3   | ug/kg | 109    | 61.3  | 1  | 04/08/20 12:06 | 04/09/20 08:29 | 7439-97-6 |      |
| <b>8270 PAH Soil</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546 |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Acenaphthene   | <371    | ug/kg | 371    | 371   | 1  | 04/07/20 01:03 | 04/07/20 15:42 | 83-32-9   |      |
| Acenaphthylene   | <371    | ug/kg | 371    | 371   | 1  | 04/07/20 01:03 | 04/07/20 15:42 | 208-96-8  |      |
| Anthracene   | <371    | ug/kg | 371    | 371   | 1  | 04/07/20 01:03 | 04/07/20 15:42 | 120-12-7  |      |
| Benzo(a)anthracene   | <371    | ug/kg | 371    | 371   | 1  | 04/07/20 01:03 | 04/07/20 15:42 | 56-55-3   |      |
| Benzo(a)pyrene   | <371    | ug/kg | 371    | 371   | 1  | 04/07/20 01:03 | 04/07/20 15:42 | 50-32-8   |      |
| Benzo(b)fluoranthene   | <371    | ug/kg | 371    | 371   | 1  | 04/07/20 01:03 | 04/07/20 15:42 | 205-99-2  |      |
| Benzo(g,h,i)perylene   | <371    | ug/kg | 371    | 371   | 1  | 04/07/20 01:03 | 04/07/20 15:42 | 191-24-2  |      |
| Benzo(k)fluoranthene   | <371    | ug/kg | 371    | 371   | 1  | 04/07/20 01:03 | 04/07/20 15:42 | 207-08-9  |      |
| Chrysene   | <371    | ug/kg | 371    | 371   | 1  | 04/07/20 01:03 | 04/07/20 15:42 | 218-01-9  |      |
| Dibenz(a,h)anthracene  | <371    | ug/kg | 371    | 371   | 1  | 04/07/20 01:03 | 04/07/20 15:42 | 53-70-3   |      |
| Fluoranthene   | <371    | ug/kg | 371    | 371   | 1  | 04/07/20 01:03 | 04/07/20 15:42 | 206-44-0  |      |
| Fluorene   | <371    | ug/kg | 371    | 371   | 1  | 04/07/20 01:03 | 04/07/20 15:42 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | <371    | ug/kg | 371    | 371   | 1  | 04/07/20 01:03 | 04/07/20 15:42 | 193-39-5  |      |
| 2-Methylnaphthalene  | <371    | ug/kg | 371    | 371   | 1  | 04/07/20 01:03 | 04/07/20 15:42 | 91-57-6   |      |
| Naphthalene  | <371    | ug/kg | 371    | 371   | 1  | 04/07/20 01:03 | 04/07/20 15:42 | 91-20-3   |      |
| Phenanthrene   | <371    | ug/kg | 371    | 371   | 1  | 04/07/20 01:03 | 04/07/20 15:42 | 85-01-8   |      |
| Pyrene   | <371    | ug/kg | 371    | 371   | 1  | 04/07/20 01:03 | 04/07/20 15:42 | 129-00-0  |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)   | 70      | %     | 37-111 |       | 1  | 04/07/20 01:03 | 04/07/20 15:42 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 73      | %     | 29-124 |       | 1  | 04/07/20 01:03 | 04/07/20 15:42 | 1718-51-0 |      |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale

Pace Project No.: 50253312

**Sample:** Dup-1      **Lab ID:** 50253312007      Collected: 03/30/20 12:00      Received: 03/31/20 08:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Acetone                        | <1180   | ug/kg  | 1180 | 1180 | 1  |          | 04/06/20 18:22 | 67-64-1    |      |
| Acrylonitrile                  | <118    | ug/kg  | 118  | 118  | 1  |          | 04/06/20 18:22 | 107-13-1   |      |
| tert-Amylmethyl ether          | <294    | ug/kg  | 294  | 294  | 1  |          | 04/06/20 18:22 | 994-05-8   | N2   |
| Benzene                        | <58.9   | ug/kg  | 58.9 | 58.9 | 1  |          | 04/06/20 18:22 | 71-43-2    |      |
| Bromobenzene                   | <118    | ug/kg  | 118  | 118  | 1  |          | 04/06/20 18:22 | 108-86-1   |      |
| Bromochloromethane             | <29.4   | ug/kg  | 58.9 | 29.4 | 1  |          | 04/06/20 18:22 | 74-97-5    |      |
| Bromodichloromethane           | <118    | ug/kg  | 118  | 118  | 1  |          | 04/06/20 18:22 | 75-27-4    |      |
| Bromoform                      | <118    | ug/kg  | 118  | 118  | 1  |          | 04/06/20 18:22 | 75-25-2    |      |
| Bromomethane                   | <236    | ug/kg  | 236  | 236  | 1  |          | 04/06/20 18:22 | 74-83-9    | L1   |
| 2-Butanone (MEK)               | <883    | ug/kg  | 883  | 883  | 1  |          | 04/06/20 18:22 | 78-93-3    |      |
| tert-Butyl Alcohol             | <2940   | ug/kg  | 2940 | 2940 | 1  |          | 04/06/20 18:22 | 75-65-0    |      |
| n-Butylbenzene                 | <58.9   | ug/kg  | 58.9 | 58.9 | 1  |          | 04/06/20 18:22 | 104-51-8   |      |
| sec-Butylbenzene               | <58.9   | ug/kg  | 58.9 | 58.9 | 1  |          | 04/06/20 18:22 | 135-98-8   |      |
| tert-Butylbenzene              | <58.9   | ug/kg  | 58.9 | 58.9 | 1  |          | 04/06/20 18:22 | 98-06-6    |      |
| Carbon disulfide               | <294    | ug/kg  | 294  | 294  | 1  |          | 04/06/20 18:22 | 75-15-0    |      |
| Carbon tetrachloride           | <58.9   | ug/kg  | 58.9 | 58.9 | 1  |          | 04/06/20 18:22 | 56-23-5    |      |
| Chlorobenzene                  | <58.9   | ug/kg  | 58.9 | 58.9 | 1  |          | 04/06/20 18:22 | 108-90-7   |      |
| Chloroethane                   | <294    | ug/kg  | 294  | 294  | 1  |          | 04/06/20 18:22 | 75-00-3    |      |
| Chloroform                     | <58.9   | ug/kg  | 58.9 | 58.9 | 1  |          | 04/06/20 18:22 | 67-66-3    |      |
| Chloromethane                  | <294    | ug/kg  | 294  | 294  | 1  |          | 04/06/20 18:22 | 74-87-3    |      |
| Cyclohexane                    | <589    | ug/kg  | 589  | 589  | 1  |          | 04/06/20 18:22 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <58.9   | ug/kg  | 58.9 | 58.9 | 1  |          | 04/06/20 18:22 | 96-12-8    |      |
| Dibromochloromethane           | <118    | ug/kg  | 118  | 118  | 1  |          | 04/06/20 18:22 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <58.9   | ug/kg  | 58.9 | 58.9 | 1  |          | 04/06/20 18:22 | 106-93-4   |      |
| Dibromomethane                 | <294    | ug/kg  | 294  | 294  | 1  |          | 04/06/20 18:22 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <118    | ug/kg  | 118  | 118  | 1  |          | 04/06/20 18:22 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <118    | ug/kg  | 118  | 118  | 1  |          | 04/06/20 18:22 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <118    | ug/kg  | 118  | 118  | 1  |          | 04/06/20 18:22 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <118    | ug/kg  | 1180 | 118  | 1  |          | 04/06/20 18:22 | 110-57-6   |      |
| Dichlorodifluoromethane        | <294    | ug/kg  | 294  | 294  | 1  |          | 04/06/20 18:22 | 75-71-8    |      |
| 1,1-Dichloroethane             | <58.9   | ug/kg  | 58.9 | 58.9 | 1  |          | 04/06/20 18:22 | 75-34-3    |      |
| 1,2-Dichloroethane             | <58.9   | ug/kg  | 58.9 | 58.9 | 1  |          | 04/06/20 18:22 | 107-06-2   |      |
| 1,1-Dichloroethene             | <58.9   | ug/kg  | 58.9 | 58.9 | 1  |          | 04/06/20 18:22 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <58.9   | ug/kg  | 58.9 | 58.9 | 1  |          | 04/06/20 18:22 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <58.9   | ug/kg  | 58.9 | 58.9 | 1  |          | 04/06/20 18:22 | 156-60-5   |      |
| 1,2-Dichloropropane            | <58.9   | ug/kg  | 58.9 | 58.9 | 1  |          | 04/06/20 18:22 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <118    | ug/kg  | 118  | 118  | 1  |          | 04/06/20 18:22 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <118    | ug/kg  | 118  | 118  | 1  |          | 04/06/20 18:22 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <236    | ug/kg  | 236  | 236  | 1  |          | 04/06/20 18:22 | 60-29-7    |      |
| Diisopropyl ether              | <294    | ug/kg  | 294  | 294  | 1  |          | 04/06/20 18:22 | 108-20-3   | N2   |
| Ethylbenzene                   | <58.9   | ug/kg  | 58.9 | 58.9 | 1  |          | 04/06/20 18:22 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <294    | ug/kg  | 294  | 294  | 1  |          | 04/06/20 18:22 | 637-92-3   | N2   |
| Hexachloroethane               | <353    | ug/kg  | 353  | 353  | 1  |          | 04/06/20 18:22 | 67-72-1    | N2   |
| 2-Hexanone                     | <2940   | ug/kg  | 2940 | 2940 | 1  |          | 04/06/20 18:22 | 591-78-6   |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253312

**Sample: Dup-1**      **Lab ID: 50253312007**      Collected: 03/30/20 12:00      Received: 03/31/20 08:15      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Iodomethane                             | <118    | ug/kg | 1180   | 118  | 1  |          | 04/06/20 18:22 | 74-88-4     |      |
| Isopropylbenzene (Cumene)               | <294    | ug/kg | 294    | 294  | 1  |          | 04/06/20 18:22 | 98-82-8     |      |
| p-Isopropyltoluene                      | <29.4   | ug/kg | 58.9   | 29.4 | 1  |          | 04/06/20 18:22 | 99-87-6     |      |
| Methylene Chloride                      | <118    | ug/kg | 118    | 118  | 1  |          | 04/06/20 18:22 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <389    | ug/kg | 389    | 389  | 1  |          | 04/06/20 18:22 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <2940   | ug/kg | 2940   | 2940 | 1  |          | 04/06/20 18:22 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <294    | ug/kg | 294    | 294  | 1  |          | 04/06/20 18:22 | 1634-04-4   |      |
| Naphthalene                             | <389    | ug/kg | 389    | 389  | 1  |          | 04/06/20 18:22 | 91-20-3     |      |
| n-Propylbenzene                         | <118    | ug/kg | 118    | 118  | 1  |          | 04/06/20 18:22 | 103-65-1    |      |
| Styrene                                 | <58.9   | ug/kg | 58.9   | 58.9 | 1  |          | 04/06/20 18:22 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <118    | ug/kg | 118    | 118  | 1  |          | 04/06/20 18:22 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <58.9   | ug/kg | 58.9   | 58.9 | 1  |          | 04/06/20 18:22 | 79-34-5     |      |
| Tetrachloroethene                       | <58.9   | ug/kg | 58.9   | 58.9 | 1  |          | 04/06/20 18:22 | 127-18-4    |      |
| Tetrahydrofuran                         | <1180   | ug/kg | 1180   | 1180 | 1  |          | 04/06/20 18:22 | 109-99-9    | N2   |
| Toluene                                 | <118    | ug/kg | 118    | 118  | 1  |          | 04/06/20 18:22 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <294    | ug/kg | 294    | 294  | 1  |          | 04/06/20 18:22 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <294    | ug/kg | 294    | 294  | 1  |          | 04/06/20 18:22 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <58.9   | ug/kg | 58.9   | 58.9 | 1  |          | 04/06/20 18:22 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <58.9   | ug/kg | 58.9   | 58.9 | 1  |          | 04/06/20 18:22 | 79-00-5     |      |
| Trichloroethene                         | <58.9   | ug/kg | 58.9   | 58.9 | 1  |          | 04/06/20 18:22 | 79-01-6     |      |
| Trichlorofluoromethane                  | <118    | ug/kg | 118    | 118  | 1  |          | 04/06/20 18:22 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <118    | ug/kg | 118    | 118  | 1  |          | 04/06/20 18:22 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <294    | ug/kg | 294    | 294  | 1  |          | 04/06/20 18:22 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <118    | ug/kg | 118    | 118  | 1  |          | 04/06/20 18:22 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <118    | ug/kg | 118    | 118  | 1  |          | 04/06/20 18:22 | 108-67-8    |      |
| Vinyl chloride                          | <47.1   | ug/kg | 47.1   | 47.1 | 1  |          | 04/06/20 18:22 | 75-01-4     |      |
| m&p-Xylene                              | <29.4   | ug/kg | 58.9   | 29.4 | 1  |          | 04/06/20 18:22 | 179601-23-1 |      |
| o-Xylene                                | <29.4   | ug/kg | 58.9   | 29.4 | 1  |          | 04/06/20 18:22 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 113     | %     | 62-137 |      | 1  |          | 04/06/20 18:22 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 121     | %     | 64-139 |      | 1  |          | 04/06/20 18:22 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 108     | %     | 60-142 |      | 1  |          | 04/06/20 18:22 | 460-00-4    |      |

**Percent Moisture**

Analytical Method: SM 2540G  
Pace Analytical Services - Indianapolis

|                  |      |   |      |      |   |  |                |  |  |
|------------------|------|---|------|------|---|--|----------------|--|--|
| Percent Moisture | 11.6 | % | 0.10 | 0.10 | 1 |  | 04/04/20 11:27 |  |  |
|------------------|------|---|------|------|---|--|----------------|--|--|

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale

Pace Project No.: 50253312

**Sample: Trip Blank**      **Lab ID: 50253312008**      Collected: 03/30/20 08:30      Received: 03/31/20 08:15      Matrix: Solid

*Results reported on a "wet-weight" basis*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Acetone                        | <1000   | ug/kg  | 1000 | 1000 | 1  |          | 04/06/20 18:54 | 67-64-1    |      |
| Acrylonitrile                  | <100    | ug/kg  | 100  | 100  | 1  |          | 04/06/20 18:54 | 107-13-1   |      |
| tert-Amyl methyl ether         | <250    | ug/kg  | 250  | 250  | 1  |          | 04/06/20 18:54 | 994-05-8   | N2   |
| Benzene                        | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 18:54 | 71-43-2    |      |
| Bromobenzene                   | <100    | ug/kg  | 100  | 100  | 1  |          | 04/06/20 18:54 | 108-86-1   |      |
| Bromochloromethane             | <25.0   | ug/kg  | 50.0 | 25.0 | 1  |          | 04/06/20 18:54 | 74-97-5    |      |
| Bromodichloromethane           | <100    | ug/kg  | 100  | 100  | 1  |          | 04/06/20 18:54 | 75-27-4    |      |
| Bromoform                      | <100    | ug/kg  | 100  | 100  | 1  |          | 04/06/20 18:54 | 75-25-2    |      |
| Bromomethane                   | <200    | ug/kg  | 200  | 200  | 1  |          | 04/06/20 18:54 | 74-83-9    | L1   |
| 2-Butanone (MEK)               | <750    | ug/kg  | 750  | 750  | 1  |          | 04/06/20 18:54 | 78-93-3    |      |
| tert-Butyl Alcohol             | <2500   | ug/kg  | 2500 | 2500 | 1  |          | 04/06/20 18:54 | 75-65-0    |      |
| n-Butylbenzene                 | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 18:54 | 104-51-8   |      |
| sec-Butylbenzene               | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 18:54 | 135-98-8   |      |
| tert-Butylbenzene              | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 18:54 | 98-06-6    |      |
| Carbon disulfide               | <250    | ug/kg  | 250  | 250  | 1  |          | 04/06/20 18:54 | 75-15-0    |      |
| Carbon tetrachloride           | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 18:54 | 56-23-5    |      |
| Chlorobenzene                  | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 18:54 | 108-90-7   |      |
| Chloroethane                   | <250    | ug/kg  | 250  | 250  | 1  |          | 04/06/20 18:54 | 75-00-3    |      |
| Chloroform                     | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 18:54 | 67-66-3    |      |
| Chloromethane                  | <250    | ug/kg  | 250  | 250  | 1  |          | 04/06/20 18:54 | 74-87-3    |      |
| Cyclohexane                    | <500    | ug/kg  | 500  | 500  | 1  |          | 04/06/20 18:54 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 18:54 | 96-12-8    |      |
| Dibromochloromethane           | <100    | ug/kg  | 100  | 100  | 1  |          | 04/06/20 18:54 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 18:54 | 106-93-4   |      |
| Dibromomethane                 | <250    | ug/kg  | 250  | 250  | 1  |          | 04/06/20 18:54 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <100    | ug/kg  | 100  | 100  | 1  |          | 04/06/20 18:54 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <100    | ug/kg  | 100  | 100  | 1  |          | 04/06/20 18:54 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <100    | ug/kg  | 100  | 100  | 1  |          | 04/06/20 18:54 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <100    | ug/kg  | 1000 | 100  | 1  |          | 04/06/20 18:54 | 110-57-6   |      |
| Dichlorodifluoromethane        | <250    | ug/kg  | 250  | 250  | 1  |          | 04/06/20 18:54 | 75-71-8    |      |
| 1,1-Dichloroethane             | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 18:54 | 75-34-3    |      |
| 1,2-Dichloroethane             | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 18:54 | 107-06-2   |      |
| 1,1-Dichloroethene             | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 18:54 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 18:54 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 18:54 | 156-60-5   |      |
| 1,2-Dichloropropane            | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 18:54 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <100    | ug/kg  | 100  | 100  | 1  |          | 04/06/20 18:54 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <100    | ug/kg  | 100  | 100  | 1  |          | 04/06/20 18:54 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <200    | ug/kg  | 200  | 200  | 1  |          | 04/06/20 18:54 | 60-29-7    |      |
| Diisopropyl ether              | <250    | ug/kg  | 250  | 250  | 1  |          | 04/06/20 18:54 | 108-20-3   | N2   |
| Ethylbenzene                   | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 18:54 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <250    | ug/kg  | 250  | 250  | 1  |          | 04/06/20 18:54 | 637-92-3   | N2   |
| Hexachloroethane               | <300    | ug/kg  | 300  | 300  | 1  |          | 04/06/20 18:54 | 67-72-1    | N2   |
| 2-Hexanone                     | <2500   | ug/kg  | 2500 | 2500 | 1  |          | 04/06/20 18:54 | 591-78-6   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253312

**Sample: Trip Blank**      **Lab ID: 50253312008**      Collected: 03/30/20 08:30      Received: 03/31/20 08:15      Matrix: Solid

*Results reported on a "wet-weight" basis*

| Parameters                     | Results | Units  | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|---------|--|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Iodomethane                    | <100    | ug/kg  | 1000   | 100  | 1  |          | 04/06/20 18:54 | 74-88-4     |      |
| Isopropylbenzene (Cumene)      | <250    | ug/kg  | 250    | 250  | 1  |          | 04/06/20 18:54 | 98-82-8     |      |
| p-Isopropyltoluene             | <25.0   | ug/kg  | 50.0   | 25.0 | 1  |          | 04/06/20 18:54 | 99-87-6     |      |
| Methylene Chloride             | <100    | ug/kg  | 100    | 100  | 1  |          | 04/06/20 18:54 | 75-09-2     |      |
| 2-Methylnaphthalene            | <330    | ug/kg  | 330    | 330  | 1  |          | 04/06/20 18:54 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)    | <2500   | ug/kg  | 2500   | 2500 | 1  |          | 04/06/20 18:54 | 108-10-1    |      |
| Methyl-tert-butyl ether        | <250    | ug/kg  | 250    | 250  | 1  |          | 04/06/20 18:54 | 1634-04-4   |      |
| Naphthalene                    | <330    | ug/kg  | 330    | 330  | 1  |          | 04/06/20 18:54 | 91-20-3     |      |
| n-Propylbenzene                | <100    | ug/kg  | 100    | 100  | 1  |          | 04/06/20 18:54 | 103-65-1    |      |
| Styrene                        | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 04/06/20 18:54 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane      | <100    | ug/kg  | 100    | 100  | 1  |          | 04/06/20 18:54 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane      | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 04/06/20 18:54 | 79-34-5     |      |
| Tetrachloroethene              | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 04/06/20 18:54 | 127-18-4    |      |
| Tetrahydrofuran                | <1000   | ug/kg  | 1000   | 1000 | 1  |          | 04/06/20 18:54 | 109-99-9    | N2   |
| Toluene                        | <100    | ug/kg  | 100    | 100  | 1  |          | 04/06/20 18:54 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene         | <250    | ug/kg  | 250    | 250  | 1  |          | 04/06/20 18:54 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene         | <250    | ug/kg  | 250    | 250  | 1  |          | 04/06/20 18:54 | 120-82-1    |      |
| 1,1,1-Trichloroethane          | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 04/06/20 18:54 | 71-55-6     |      |
| 1,1,2-Trichloroethane          | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 04/06/20 18:54 | 79-00-5     |      |
| Trichloroethene                | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 04/06/20 18:54 | 79-01-6     |      |
| Trichlorofluoromethane         | <100    | ug/kg  | 100    | 100  | 1  |          | 04/06/20 18:54 | 75-69-4     |      |
| 1,2,3-Trichloropropane         | <100    | ug/kg  | 100    | 100  | 1  |          | 04/06/20 18:54 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene         | <250    | ug/kg  | 250    | 250  | 1  |          | 04/06/20 18:54 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene         | <100    | ug/kg  | 100    | 100  | 1  |          | 04/06/20 18:54 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | <100    | ug/kg  | 100    | 100  | 1  |          | 04/06/20 18:54 | 108-67-8    |      |
| Vinyl chloride                 | <40.0   | ug/kg  | 40.0   | 40.0 | 1  |          | 04/06/20 18:54 | 75-01-4     |      |
| m&p-Xylene                     | <25.0   | ug/kg  | 50.0   | 25.0 | 1  |          | 04/06/20 18:54 | 179601-23-1 |      |
| o-Xylene                       | <25.0   | ug/kg  | 50.0   | 25.0 | 1  |          | 04/06/20 18:54 | 95-47-6     |      |
| <b>Surrogates</b>              |         |  |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)       | 99      | %  | 62-137 |      | 1  |          | 04/06/20 18:54 | 1868-53-7   |      |
| Toluene-d8 (S)                 | 107     | %  | 64-139 |      | 1  |          | 04/06/20 18:54 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)       | 97      | %  | 60-142 |      | 1  |          | 04/06/20 18:54 | 460-00-4    |      |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253312

Sample: Field Blank Lab ID: 50253312009 Collected: 03/30/20 11:00 Received: 03/31/20 08:15 Matrix: Solid

Results reported on a "wet-weight" basis

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Acetone                        | <1000   | ug/kg  | 1000 | 1000 | 1  |          | 04/06/20 19:27 | 67-64-1    |      |
| Acrylonitrile                  | <100    | ug/kg  | 100  | 100  | 1  |          | 04/06/20 19:27 | 107-13-1   |      |
| tert-Amylmethyl ether          | <250    | ug/kg  | 250  | 250  | 1  |          | 04/06/20 19:27 | 994-05-8   | N2   |
| Benzene                        | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 19:27 | 71-43-2    |      |
| Bromobenzene                   | <100    | ug/kg  | 100  | 100  | 1  |          | 04/06/20 19:27 | 108-86-1   |      |
| Bromochloromethane             | <25.0   | ug/kg  | 50.0 | 25.0 | 1  |          | 04/06/20 19:27 | 74-97-5    |      |
| Bromodichloromethane           | <100    | ug/kg  | 100  | 100  | 1  |          | 04/06/20 19:27 | 75-27-4    |      |
| Bromoform                      | <100    | ug/kg  | 100  | 100  | 1  |          | 04/06/20 19:27 | 75-25-2    |      |
| Bromomethane                   | <200    | ug/kg  | 200  | 200  | 1  |          | 04/06/20 19:27 | 74-83-9    | L1   |
| 2-Butanone (MEK)               | <750    | ug/kg  | 750  | 750  | 1  |          | 04/06/20 19:27 | 78-93-3    |      |
| tert-Butyl Alcohol             | <2500   | ug/kg  | 2500 | 2500 | 1  |          | 04/06/20 19:27 | 75-65-0    |      |
| n-Butylbenzene                 | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 19:27 | 104-51-8   |      |
| sec-Butylbenzene               | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 19:27 | 135-98-8   |      |
| tert-Butylbenzene              | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 19:27 | 98-06-6    |      |
| Carbon disulfide               | <250    | ug/kg  | 250  | 250  | 1  |          | 04/06/20 19:27 | 75-15-0    |      |
| Carbon tetrachloride           | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 19:27 | 56-23-5    |      |
| Chlorobenzene                  | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 19:27 | 108-90-7   |      |
| Chloroethane                   | <250    | ug/kg  | 250  | 250  | 1  |          | 04/06/20 19:27 | 75-00-3    |      |
| Chloroform                     | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 19:27 | 67-66-3    |      |
| Chloromethane                  | <250    | ug/kg  | 250  | 250  | 1  |          | 04/06/20 19:27 | 74-87-3    |      |
| Cyclohexane                    | <500    | ug/kg  | 500  | 500  | 1  |          | 04/06/20 19:27 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 19:27 | 96-12-8    |      |
| Dibromochloromethane           | <100    | ug/kg  | 100  | 100  | 1  |          | 04/06/20 19:27 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 19:27 | 106-93-4   |      |
| Dibromomethane                 | <250    | ug/kg  | 250  | 250  | 1  |          | 04/06/20 19:27 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <100    | ug/kg  | 100  | 100  | 1  |          | 04/06/20 19:27 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <100    | ug/kg  | 100  | 100  | 1  |          | 04/06/20 19:27 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <100    | ug/kg  | 100  | 100  | 1  |          | 04/06/20 19:27 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <100    | ug/kg  | 1000 | 100  | 1  |          | 04/06/20 19:27 | 110-57-6   |      |
| Dichlorodifluoromethane        | <250    | ug/kg  | 250  | 250  | 1  |          | 04/06/20 19:27 | 75-71-8    |      |
| 1,1-Dichloroethane             | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 19:27 | 75-34-3    |      |
| 1,2-Dichloroethane             | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 19:27 | 107-06-2   |      |
| 1,1-Dichloroethene             | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 19:27 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 19:27 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 19:27 | 156-60-5   |      |
| 1,2-Dichloropropane            | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 19:27 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <100    | ug/kg  | 100  | 100  | 1  |          | 04/06/20 19:27 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <100    | ug/kg  | 100  | 100  | 1  |          | 04/06/20 19:27 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <200    | ug/kg  | 200  | 200  | 1  |          | 04/06/20 19:27 | 60-29-7    |      |
| Diisopropyl ether              | <250    | ug/kg  | 250  | 250  | 1  |          | 04/06/20 19:27 | 108-20-3   | N2   |
| Ethylbenzene                   | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 04/06/20 19:27 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <250    | ug/kg  | 250  | 250  | 1  |          | 04/06/20 19:27 | 637-92-3   | N2   |
| Hexachloroethane               | <300    | ug/kg  | 300  | 300  | 1  |          | 04/06/20 19:27 | 67-72-1    | N2   |
| 2-Hexanone                     | <2500   | ug/kg  | 2500 | 2500 | 1  |          | 04/06/20 19:27 | 591-78-6   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50253312

**Sample: Field Blank**      **Lab ID: 50253312009**      Collected: 03/30/20 11:00      Received: 03/31/20 08:15      Matrix: Solid

*Results reported on a "wet-weight" basis*

| Parameters                     | Results | Units  | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|---------|--|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Iodomethane                    | <100    | ug/kg  | 1000   | 100  | 1  |          | 04/06/20 19:27 | 74-88-4     |      |
| Isopropylbenzene (Cumene)      | <250    | ug/kg  | 250    | 250  | 1  |          | 04/06/20 19:27 | 98-82-8     |      |
| p-Isopropyltoluene             | <25.0   | ug/kg  | 50.0   | 25.0 | 1  |          | 04/06/20 19:27 | 99-87-6     |      |
| Methylene Chloride             | <100    | ug/kg  | 100    | 100  | 1  |          | 04/06/20 19:27 | 75-09-2     |      |
| 2-Methylnaphthalene            | <330    | ug/kg  | 330    | 330  | 1  |          | 04/06/20 19:27 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)    | <2500   | ug/kg  | 2500   | 2500 | 1  |          | 04/06/20 19:27 | 108-10-1    |      |
| Methyl-tert-butyl ether        | <250    | ug/kg  | 250    | 250  | 1  |          | 04/06/20 19:27 | 1634-04-4   |      |
| Naphthalene                    | <330    | ug/kg  | 330    | 330  | 1  |          | 04/06/20 19:27 | 91-20-3     |      |
| n-Propylbenzene                | <100    | ug/kg  | 100    | 100  | 1  |          | 04/06/20 19:27 | 103-65-1    |      |
| Styrene                        | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 04/06/20 19:27 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane      | <100    | ug/kg  | 100    | 100  | 1  |          | 04/06/20 19:27 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane      | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 04/06/20 19:27 | 79-34-5     |      |
| Tetrachloroethene              | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 04/06/20 19:27 | 127-18-4    |      |
| Tetrahydrofuran                | <1000   | ug/kg  | 1000   | 1000 | 1  |          | 04/06/20 19:27 | 109-99-9    | N2   |
| Toluene                        | <100    | ug/kg  | 100    | 100  | 1  |          | 04/06/20 19:27 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene         | <250    | ug/kg  | 250    | 250  | 1  |          | 04/06/20 19:27 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene         | <250    | ug/kg  | 250    | 250  | 1  |          | 04/06/20 19:27 | 120-82-1    |      |
| 1,1,1-Trichloroethane          | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 04/06/20 19:27 | 71-55-6     |      |
| 1,1,2-Trichloroethane          | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 04/06/20 19:27 | 79-00-5     |      |
| Trichloroethene                | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 04/06/20 19:27 | 79-01-6     |      |
| Trichlorofluoromethane         | <100    | ug/kg  | 100    | 100  | 1  |          | 04/06/20 19:27 | 75-69-4     |      |
| 1,2,3-Trichloropropane         | <100    | ug/kg  | 100    | 100  | 1  |          | 04/06/20 19:27 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene         | <250    | ug/kg  | 250    | 250  | 1  |          | 04/06/20 19:27 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene         | <100    | ug/kg  | 100    | 100  | 1  |          | 04/06/20 19:27 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | <100    | ug/kg  | 100    | 100  | 1  |          | 04/06/20 19:27 | 108-67-8    |      |
| Vinyl chloride                 | <40.0   | ug/kg  | 40.0   | 40.0 | 1  |          | 04/06/20 19:27 | 75-01-4     |      |
| m&p-Xylene                     | <25.0   | ug/kg  | 50.0   | 25.0 | 1  |          | 04/06/20 19:27 | 179601-23-1 |      |
| o-Xylene                       | <25.0   | ug/kg  | 50.0   | 25.0 | 1  |          | 04/06/20 19:27 | 95-47-6     |      |
| <b>Surrogates</b>              |         |  |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)       | 99      | %  | 62-137 |      | 1  |          | 04/06/20 19:27 | 1868-53-7   |      |
| Toluene-d8 (S)                 | 106     | %  | 64-139 |      | 1  |          | 04/06/20 19:27 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)       | 98      | %  | 60-142 |      | 1  |          | 04/06/20 19:27 | 460-00-4    |      |

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50253312

QC Batch: 555572 Analysis Method: EPA 8015 Alcohol-Glycol  
QC Batch Method: EPA 8015 Alcohol-Glycol Analysis Description: EPA 8015 Modified  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50253312002, 50253312004, 50253312006, 50253312007

METHOD BLANK: 2562713 Matrix: Solid  
Associated Lab Samples: 50253312002, 50253312004, 50253312006, 50253312007

| Parameter | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Ethanol   | ug/kg | <2500        | 2500            | 2500 | 04/05/20 13:24 |            |
| Methanol  | ug/kg | <4400        | 4400            | 4400 | 04/05/20 13:24 |            |
| n-Butanol | ug/kg | <4400        | 4400            | 4400 | 04/05/20 13:24 |            |

LABORATORY CONTROL SAMPLE: 2562714

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Ethanol   | ug/kg | 50000       | 49300      | 99        | 79-113       |            |
| Methanol  | ug/kg | 50000       | 49000      | 98        | 75-111       |            |
| n-Butanol | ug/kg | 50000       | 47300      | 95        | 80-115       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2562715 2562716

| Parameter | Units | 50253312007 |                | 50253312006     |           | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|----------------|-----------------|-----------|-----------|------------|----------|-----------|--------------|-----|---------|------|
|           |       | Result      | MS Spike Conc. | MSD Spike Conc. | MS Result |           |            |          |           |              |     |         |      |
| Ethanol   | ug/kg | <2830       | 56500          | 56500           | 48800     | 48100     | 86         | 85       | 46-120    | 1            | 20  |         |      |
| Methanol  | ug/kg | 5610        | 56500          | 56500           | 53500     | 52600     | 85         | 83       | 42-119    | 2            | 20  |         |      |
| n-Butanol | ug/kg | <4980       | 56500          | 56500           | 47100     | 46200     | 83         | 82       | 10-142    | 2            | 20  |         |      |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50253312

QC Batch: 555646 Analysis Method: EPA 7471  
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50253312001, 50253312002, 50253312003, 50253312004, 50253312005, 50253312006, 50253312007

METHOD BLANK: 2562911 Matrix: Solid  
Associated Lab Samples: 50253312001, 50253312002, 50253312003, 50253312004, 50253312005, 50253312006, 50253312007

| Parameter | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Mercury   | ug/kg | <54.7        | 97.7            | 54.7 | 04/09/20 07:44 |            |

LABORATORY CONTROL SAMPLE: 2562912

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury   | ug/kg | 490         | 492        | 100       | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2562913 2562914

| Parameter | Units | 2562913            |                | 2562914         |           | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|------|
|           |       | 50253306002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result |          |           |              |        |         |      |
| Mercury   | ug/kg | ND                 | 564            | 579             | 596       | 594      | 103       | 100          | 75-125 | 0       | 20   |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale

Pace Project No.: 50253312

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|                  |          |                       |   |
|------------------|----------|-----------------------|---|
| QC Batch:        | 555146   | Analysis Method:      | EPA 6010                                |
| QC Batch Method: | EPA 3050 | Analysis Description: | 6010 MET                                |
|                  |          | Laboratory:           | Pace Analytical Services - Indianapolis |

Associated Lab Samples: 50253312001, 50253312002, 50253312003, 50253312004, 50253312005, 50253312006, 50253312007

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METHOD BLANK: 2560143 Matrix: Solid

Associated Lab Samples: 50253312001, 50253312002, 50253312003, 50253312004, 50253312005, 50253312006, 50253312007

| Parameter | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Arsenic   | ug/kg | <2000        | 2000            | 2000  | 04/07/20 13:15 |            |
| Barium    | ug/kg | <1000        | 1000            | 1000  | 04/07/20 13:15 |            |
| Lead      | ug/kg | <10000       | 10000           | 10000 | 04/07/20 13:15 |            |

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LABORATORY CONTROL SAMPLE: 2560144

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic   | ug/kg | 50000       | 51300      | 103       | 80-120       |            |
| Barium    | ug/kg | 50000       | 51500      | 103       | 80-120       |            |
| Lead      | ug/kg | 50000       | 51200      | 102       | 80-120       |            |

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MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2560145 2560146

| Parameter | Units | 50253312003 |                | 50253312004     |        | 50253312005 |        | 50253312006 |        | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|----------------|-----------------|--------|-------------|--------|-------------|--------|--------------|-----|---------|------|
|           |       | Result      | MS Spike Conc. | MSD Spike Conc. | Result | MSD Result  | Result | MSD Result  | % Rec  |              |     |         |      |
| Arsenic   | ug/kg | <2130       | 51700          | 55300           | 51200  | 55400       | 96     | 97          | 75-125 | 8            | 20  |         |      |
| Barium    | ug/kg | 8430        | 51700          | 55300           | 61000  | 65000       | 102    | 102         | 75-125 | 6            | 20  |         |      |
| Lead      | ug/kg | <10600      | 51700          | 55300           | 52000  | 55800       | 94     | 95          | 75-125 | 7            | 20  |         |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50253312

QC Batch: 556033 Analysis Method: EPA 6010  
QC Batch Method: EPA 3050 Analysis Description: 6010 MET  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50253312001, 50253312002, 50253312003, 50253312004, 50253312005, 50253312006, 50253312007

METHOD BLANK: 2564381 Matrix: Solid  
Associated Lab Samples: 50253312001, 50253312002, 50253312003, 50253312004, 50253312005, 50253312006, 50253312007

| Parameter | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Chromium  | ug/kg | <2000        | 2000            | 2000 | 04/09/20 03:20 |            |

LABORATORY CONTROL SAMPLE: 2564382

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chromium  | ug/kg | 50000       | 48600      | 97        | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2564383 2564384

| Parameter | Units | 2564383            |                | 2564384         |           | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |            |
|-----------|-------|--------------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|------|------------|
|           |       | 50253859003 Result | MS Spike Conc. | MSD Spike Conc. | MS Result |          |           |              |        |         |      | MSD Result |
| Chromium  | ug/kg | 15.7 mg/kg         | 55900          | 57800           | 65200     | 65300    | 89        | 86           | 75-125 | 0       | 20   |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50253312

QC Batch: 555668 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035 Volatile Organics  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50253312002, 50253312004, 50253312006, 50253312007, 50253312008, 50253312009

METHOD BLANK: 2562950 Matrix: Solid  
Associated Lab Samples: 50253312002, 50253312004, 50253312006, 50253312007, 50253312008, 50253312009

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/kg | <100         | 100             | 100  | 04/06/20 12:22 |            |
| 1,1,1-Trichloroethane       | ug/kg | <50.0        | 50.0            | 50.0 | 04/06/20 12:22 |            |
| 1,1,2,2-Tetrachloroethane   | ug/kg | <50.0        | 50.0            | 50.0 | 04/06/20 12:22 |            |
| 1,1,2-Trichloroethane       | ug/kg | <50.0        | 50.0            | 50.0 | 04/06/20 12:22 |            |
| 1,1-Dichloroethane          | ug/kg | <50.0        | 50.0            | 50.0 | 04/06/20 12:22 |            |
| 1,1-Dichloroethene          | ug/kg | <50.0        | 50.0            | 50.0 | 04/06/20 12:22 |            |
| 1,2,3-Trichlorobenzene      | ug/kg | <250         | 250             | 250  | 04/06/20 12:22 |            |
| 1,2,3-Trichloropropane      | ug/kg | <100         | 100             | 100  | 04/06/20 12:22 |            |
| 1,2,3-Trimethylbenzene      | ug/kg | <250         | 250             | 250  | 04/06/20 12:22 | N2         |
| 1,2,4-Trichlorobenzene      | ug/kg | <250         | 250             | 250  | 04/06/20 12:22 |            |
| 1,2,4-Trimethylbenzene      | ug/kg | <100         | 100             | 100  | 04/06/20 12:22 |            |
| 1,2-Dibromo-3-chloropropane | ug/kg | <50.0        | 50.0            | 50.0 | 04/06/20 12:22 |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | <50.0        | 50.0            | 50.0 | 04/06/20 12:22 |            |
| 1,2-Dichlorobenzene         | ug/kg | <100         | 100             | 100  | 04/06/20 12:22 |            |
| 1,2-Dichloroethane          | ug/kg | <50.0        | 50.0            | 50.0 | 04/06/20 12:22 |            |
| 1,2-Dichloropropane         | ug/kg | <50.0        | 50.0            | 50.0 | 04/06/20 12:22 |            |
| 1,3,5-Trimethylbenzene      | ug/kg | <100         | 100             | 100  | 04/06/20 12:22 |            |
| 1,3-Dichlorobenzene         | ug/kg | <100         | 100             | 100  | 04/06/20 12:22 |            |
| 1,4-Dichlorobenzene         | ug/kg | <100         | 100             | 100  | 04/06/20 12:22 |            |
| 2-Butanone (MEK)            | ug/kg | <750         | 750             | 750  | 04/06/20 12:22 |            |
| 2-Hexanone                  | ug/kg | <2500        | 2500            | 2500 | 04/06/20 12:22 |            |
| 2-Methylnaphthalene         | ug/kg | <330         | 330             | 330  | 04/06/20 12:22 | N2         |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | <2500        | 2500            | 2500 | 04/06/20 12:22 |            |
| Acetone                     | ug/kg | <1000        | 1000            | 1000 | 04/06/20 12:22 |            |
| Acrylonitrile               | ug/kg | <100         | 100             | 100  | 04/06/20 12:22 |            |
| Benzene                     | ug/kg | <50.0        | 50.0            | 50.0 | 04/06/20 12:22 |            |
| Bromobenzene                | ug/kg | <100         | 100             | 100  | 04/06/20 12:22 |            |
| Bromochloromethane          | ug/kg | <25.0        | 50.0            | 25.0 | 04/06/20 12:22 |            |
| Bromodichloromethane        | ug/kg | <100         | 100             | 100  | 04/06/20 12:22 |            |
| Bromoform                   | ug/kg | <100         | 100             | 100  | 04/06/20 12:22 |            |
| Bromomethane                | ug/kg | <200         | 200             | 200  | 04/06/20 12:22 |            |
| Carbon disulfide            | ug/kg | <250         | 250             | 250  | 04/06/20 12:22 |            |
| Carbon tetrachloride        | ug/kg | <50.0        | 50.0            | 50.0 | 04/06/20 12:22 |            |
| Chlorobenzene               | ug/kg | <50.0        | 50.0            | 50.0 | 04/06/20 12:22 |            |
| Chloroethane                | ug/kg | <250         | 250             | 250  | 04/06/20 12:22 |            |
| Chloroform                  | ug/kg | <50.0        | 50.0            | 50.0 | 04/06/20 12:22 |            |
| Chloromethane               | ug/kg | <250         | 250             | 250  | 04/06/20 12:22 |            |
| cis-1,2-Dichloroethene      | ug/kg | <50.0        | 50.0            | 50.0 | 04/06/20 12:22 |            |
| cis-1,3-Dichloropropene     | ug/kg | <100         | 100             | 100  | 04/06/20 12:22 |            |
| Cyclohexane                 | ug/kg | <500         | 500             | 500  | 04/06/20 12:22 | N2         |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale

Pace Project No.: 50253312

METHOD BLANK: 2562950

Matrix: Solid

Associated Lab Samples: 50253312002, 50253312004, 50253312006, 50253312007, 50253312008, 50253312009

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| Dibromochloromethane        | ug/kg | <100         | 100             | 100  | 04/06/20 12:22 |            |
| Dibromomethane              | ug/kg | <250         | 250             | 250  | 04/06/20 12:22 |            |
| Dichlorodifluoromethane     | ug/kg | <250         | 250             | 250  | 04/06/20 12:22 |            |
| Diethyl ether (Ethyl ether) | ug/kg | <200         | 200             | 200  | 04/06/20 12:22 |            |
| Diisopropyl ether           | ug/kg | <250         | 250             | 250  | 04/06/20 12:22 | N2         |
| Ethyl-tert-butyl ether      | ug/kg | <250         | 250             | 250  | 04/06/20 12:22 | N2         |
| Ethylbenzene                | ug/kg | <50.0        | 50.0            | 50.0 | 04/06/20 12:22 |            |
| Hexachloroethane            | ug/kg | <300         | 300             | 300  | 04/06/20 12:22 | N2         |
| Iodomethane                 | ug/kg | <100         | 1000            | 100  | 04/06/20 12:22 |            |
| Isopropylbenzene (Cumene)   | ug/kg | <250         | 250             | 250  | 04/06/20 12:22 |            |
| m&p-Xylene                  | ug/kg | <25.0        | 50.0            | 25.0 | 04/06/20 12:22 |            |
| Methyl-tert-butyl ether     | ug/kg | <250         | 250             | 250  | 04/06/20 12:22 |            |
| Methylene Chloride          | ug/kg | <100         | 100             | 100  | 04/06/20 12:22 |            |
| n-Butylbenzene              | ug/kg | <50.0        | 50.0            | 50.0 | 04/06/20 12:22 |            |
| n-Propylbenzene             | ug/kg | <100         | 100             | 100  | 04/06/20 12:22 |            |
| Naphthalene                 | ug/kg | <330         | 330             | 330  | 04/06/20 12:22 |            |
| o-Xylene                    | ug/kg | <25.0        | 50.0            | 25.0 | 04/06/20 12:22 |            |
| p-Isopropyltoluene          | ug/kg | <25.0        | 50.0            | 25.0 | 04/06/20 12:22 |            |
| sec-Butylbenzene            | ug/kg | <50.0        | 50.0            | 50.0 | 04/06/20 12:22 |            |
| Styrene                     | ug/kg | <50.0        | 50.0            | 50.0 | 04/06/20 12:22 |            |
| tert-Amylmethyl ether       | ug/kg | <250         | 250             | 250  | 04/06/20 12:22 | N2         |
| tert-Butyl Alcohol          | ug/kg | <2500        | 2500            | 2500 | 04/06/20 12:22 |            |
| tert-Butylbenzene           | ug/kg | <50.0        | 50.0            | 50.0 | 04/06/20 12:22 |            |
| Tetrachloroethane           | ug/kg | <50.0        | 50.0            | 50.0 | 04/06/20 12:22 |            |
| Tetrahydrofuran             | ug/kg | <1000        | 1000            | 1000 | 04/06/20 12:22 | N2         |
| Toluene                     | ug/kg | <100         | 100             | 100  | 04/06/20 12:22 |            |
| trans-1,2-Dichloroethene    | ug/kg | <50.0        | 50.0            | 50.0 | 04/06/20 12:22 |            |
| trans-1,3-Dichloropropene   | ug/kg | <100         | 100             | 100  | 04/06/20 12:22 |            |
| trans-1,4-Dichloro-2-butene | ug/kg | <100         | 1000            | 100  | 04/06/20 12:22 |            |
| Trichloroethene             | ug/kg | <50.0        | 50.0            | 50.0 | 04/06/20 12:22 |            |
| Trichlorofluoromethane      | ug/kg | <100         | 100             | 100  | 04/06/20 12:22 |            |
| Vinyl chloride              | ug/kg | <40.0        | 40.0            | 40.0 | 04/06/20 12:22 |            |
| 4-Bromofluorobenzene (S)    | %     | 98           | 60-142          |      | 04/06/20 12:22 |            |
| Dibromofluoromethane (S)    | %     | 102          | 62-137          |      | 04/06/20 12:22 |            |
| Toluene-d8 (S)              | %     | 104          | 64-139          |      | 04/06/20 12:22 |            |

LABORATORY CONTROL SAMPLE: 2562951

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/kg | 100         | 102        | 102       | 82-119       |            |
| 1,1,1-Trichloroethane     | ug/kg | 100         | 110        | 110       | 82-125       |            |
| 1,1,2,2-Tetrachloroethane | ug/kg | 100         | 81.9       | 82        | 54-137       |            |
| 1,1,2-Trichloroethane     | ug/kg | 100         | 94.1       | 94        | 77-122       |            |
| 1,1-Dichloroethane        | ug/kg | 100         | 114        | 114       | 68-126       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale

Pace Project No.: 50253312

LABORATORY CONTROL SAMPLE: 2562951

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1-Dichloroethene          | ug/kg | 100         | 111        | 111       | 77-126       |            |
| 1,2,3-Trichlorobenzene      | ug/kg | 100         | <250       | 107       | 72-126       |            |
| 1,2,3-Trichloropropane      | ug/kg | 100         | <100       | 92        | 66-125       |            |
| 1,2,4-Trichlorobenzene      | ug/kg | 100         | <250       | 113       | 79-124       |            |
| 1,2,4-Trimethylbenzene      | ug/kg | 100         | 101        | 101       | 78-125       |            |
| 1,2-Dibromo-3-chloropropane | ug/kg | 100         | 105        | 105       | 64-133       |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | 100         | 99.3       | 99        | 78-124       |            |
| 1,2-Dichlorobenzene         | ug/kg | 100         | <100       | 99        | 79-117       |            |
| 1,2-Dichloroethane          | ug/kg | 100         | 97.8       | 98        | 74-116       |            |
| 1,2-Dichloropropane         | ug/kg | 100         | 107        | 107       | 70-142       |            |
| 1,3,5-Trimethylbenzene      | ug/kg | 100         | <100       | 99        | 76-122       |            |
| 1,3-Dichlorobenzene         | ug/kg | 100         | 102        | 102       | 80-118       |            |
| 1,4-Dichlorobenzene         | ug/kg | 100         | <100       | 97        | 76-115       |            |
| 2-Butanone (MEK)            | ug/kg | 500         | <750       | 91        | 65-126       |            |
| 2-Hexanone                  | ug/kg | 500         | <2500      | 93        | 54-141       |            |
| 2-Methylnaphthalene         | ug/kg | 100         | <330       | 96        | 47-148       | N2         |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | 500         | <2500      | 93        | 60-133       |            |
| Acetone                     | ug/kg | 500         | <1000      | 96        | 49-139       |            |
| Acrylonitrile               | ug/kg | 400         | 394        | 99        | 66-133       |            |
| Benzene                     | ug/kg | 100         | 105        | 105       | 71-126       |            |
| Bromobenzene                | ug/kg | 100         | 104        | 104       | 77-119       |            |
| Bromochloromethane          | ug/kg | 100         | 92.8       | 93        | 60-117       |            |
| Bromodichloromethane        | ug/kg | 100         | <100       | 98        | 79-122       |            |
| Bromoform                   | ug/kg | 100         | <100       | 92        | 64-121       |            |
| Bromomethane                | ug/kg | 100         | 218        | 218       | 10-200       | L1         |
| Carbon disulfide            | ug/kg | 100         | <250       | 113       | 54-129       |            |
| Carbon tetrachloride        | ug/kg | 100         | 108        | 108       | 78-120       |            |
| Chlorobenzene               | ug/kg | 100         | 101        | 101       | 81-117       |            |
| Chloroethane                | ug/kg | 100         | <250       | 93        | 54-134       |            |
| Chloroform                  | ug/kg | 100         | 101        | 101       | 80-119       |            |
| Chloromethane               | ug/kg | 100         | <250       | 114       | 31-118       |            |
| cis-1,2-Dichloroethene      | ug/kg | 100         | 101        | 101       | 77-125       |            |
| cis-1,3-Dichloropropene     | ug/kg | 100         | 110        | 110       | 74-133       |            |
| Cyclohexane                 | ug/kg | 100         | <500       | 109       | 49-128       | N2         |
| Dibromochloromethane        | ug/kg | 100         | 102        | 102       | 78-124       |            |
| Dibromomethane              | ug/kg | 100         | <250       | 100       | 73-129       |            |
| Dichlorodifluoromethane     | ug/kg | 100         | <250       | 121       | 32-173       |            |
| Diethyl ether (Ethyl ether) | ug/kg | 100         | <200       | 104       | 50-150       |            |
| Ethylbenzene                | ug/kg | 100         | 104        | 104       | 74-127       |            |
| Iodomethane                 | ug/kg | 200         | 206J       | 103       | 10-200       |            |
| Isopropylbenzene (Cumene)   | ug/kg | 100         | <250       | 112       | 85-121       |            |
| m&p-Xylene                  | ug/kg | 200         | 212        | 106       | 72-130       |            |
| Methyl-tert-butyl ether     | ug/kg | 100         | <250       | 106       | 78-135       |            |
| Methylene Chloride          | ug/kg | 100         | <100       | 98        | 73-119       |            |
| n-Butylbenzene              | ug/kg | 100         | 102        | 102       | 69-126       |            |
| n-Propylbenzene             | ug/kg | 100         | <100       | 98        | 73-124       |            |
| Naphthalene                 | ug/kg | 100         | <330       | 97        | 71-128       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50253312

LABORATORY CONTROL SAMPLE: 2562951

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| o-Xylene                    | ug/kg | 100         | 108        | 108       | 74-128       |            |
| p-Isopropyltoluene          | ug/kg | 100         | 105        | 105       | 74-124       |            |
| sec-Butylbenzene            | ug/kg | 100         | 100        | 100       | 72-124       |            |
| Styrene                     | ug/kg | 100         | 108        | 108       | 83-121       |            |
| tert-Butyl Alcohol          | ug/kg | 200         | <2500      | 100       | 50-150       |            |
| tert-Butylbenzene           | ug/kg | 100         | 77.0       | 77        | 54-104       |            |
| Tetrachloroethene           | ug/kg | 100         | 107        | 107       | 74-120       |            |
| Tetrahydrofuran             | ug/kg | 100         | <1000      | 102       | 53-135 N2    |            |
| Toluene                     | ug/kg | 100         | 100        | 100       | 71-124       |            |
| trans-1,2-Dichloroethene    | ug/kg | 100         | 113        | 113       | 73-131       |            |
| trans-1,3-Dichloropropene   | ug/kg | 100         | 101        | 101       | 68-128       |            |
| trans-1,4-Dichloro-2-butene | ug/kg | 400         | 376J       | 94        | 22-132       |            |
| Trichloroethene             | ug/kg | 100         | 105        | 105       | 75-121       |            |
| Trichlorofluoromethane      | ug/kg | 100         | 118        | 118       | 64-135       |            |
| Vinyl chloride              | ug/kg | 100         | 106        | 106       | 51-137       |            |
| 4-Bromofluorobenzene (S)    | %     |             |            | 108       | 60-142       |            |
| Dibromofluoromethane (S)    | %     |             |            | 101       | 62-137       |            |
| Toluene-d8 (S)              | %     |             |            | 101       | 64-139       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50253312

QC Batch: 555767 Analysis Method: EPA 8270 by SIM  
QC Batch Method: EPA 3546 Analysis Description: 8270 MSSV PAH by SIM  
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50253312002, 50253312004, 50253312006, 50253312007

METHOD BLANK: 2563279 Matrix: Solid  
Associated Lab Samples: 50253312002, 50253312004, 50253312006, 50253312007

| Parameter              | Units | Blank Result | Reporting Limit | MDL | Analyzed       | Qualifiers |
|------------------------|-------|--------------|-----------------|-----|----------------|------------|
| 2-Methylnaphthalene    | ug/kg | <328         | 328             | 328 | 04/07/20 10:02 |            |
| Acenaphthene           | ug/kg | <328         | 328             | 328 | 04/07/20 10:02 |            |
| Acenaphthylene         | ug/kg | <328         | 328             | 328 | 04/07/20 10:02 |            |
| Anthracene             | ug/kg | <328         | 328             | 328 | 04/07/20 10:02 |            |
| Benzo(a)anthracene     | ug/kg | <328         | 328             | 328 | 04/07/20 10:02 |            |
| Benzo(a)pyrene         | ug/kg | <328         | 328             | 328 | 04/07/20 10:02 |            |
| Benzo(b)fluoranthene   | ug/kg | <328         | 328             | 328 | 04/07/20 10:02 |            |
| Benzo(g,h,i)perylene   | ug/kg | <328         | 328             | 328 | 04/07/20 10:02 |            |
| Benzo(k)fluoranthene   | ug/kg | <328         | 328             | 328 | 04/07/20 10:02 |            |
| Chrysene               | ug/kg | <328         | 328             | 328 | 04/07/20 10:02 |            |
| Dibenz(a,h)anthracene  | ug/kg | <328         | 328             | 328 | 04/07/20 10:02 |            |
| Fluoranthene           | ug/kg | <328         | 328             | 328 | 04/07/20 10:02 |            |
| Fluorene               | ug/kg | <328         | 328             | 328 | 04/07/20 10:02 |            |
| Indeno(1,2,3-cd)pyrene | ug/kg | <328         | 328             | 328 | 04/07/20 10:02 |            |
| Naphthalene            | ug/kg | <328         | 328             | 328 | 04/07/20 10:02 |            |
| Phenanthrene           | ug/kg | <328         | 328             | 328 | 04/07/20 10:02 |            |
| Pyrene                 | ug/kg | <328         | 328             | 328 | 04/07/20 10:02 |            |
| 2-Fluorobiphenyl (S)   | %     | 85           | 37-111          |     | 04/07/20 10:02 |            |
| p-Terphenyl-d14 (S)    | %     | 98           | 29-124          |     | 04/07/20 10:02 |            |

LABORATORY CONTROL SAMPLE: 2563280

| Parameter              | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| 2-Methylnaphthalene    | ug/kg | 332         | <329       | 96        | 50-117       |            |
| Acenaphthene           | ug/kg | 332         | <329       | 97        | 54-116       |            |
| Acenaphthylene         | ug/kg | 332         | 347        | 104       | 55-119       |            |
| Anthracene             | ug/kg | 332         | 363        | 109       | 51-122       |            |
| Benzo(a)anthracene     | ug/kg | 332         | <329       | 96        | 66-125       |            |
| Benzo(a)pyrene         | ug/kg | 332         | 330        | 99        | 61-133       |            |
| Benzo(b)fluoranthene   | ug/kg | 332         | <329       | 95        | 49-141       |            |
| Benzo(g,h,i)perylene   | ug/kg | 332         | 333        | 100       | 53-130       |            |
| Benzo(k)fluoranthene   | ug/kg | 332         | 374        | 112       | 51-135       |            |
| Chrysene               | ug/kg | 332         | <329       | 95        | 63-125       |            |
| Dibenz(a,h)anthracene  | ug/kg | 332         | 349        | 105       | 59-130       |            |
| Fluoranthene           | ug/kg | 332         | 351        | 106       | 65-128       |            |
| Fluorene               | ug/kg | 332         | 330        | 99        | 57-122       |            |
| Indeno(1,2,3-cd)pyrene | ug/kg | 332         | 351        | 106       | 62-122       |            |
| Naphthalene            | ug/kg | 332         | <329       | 94        | 48-109       |            |
| Phenanthrene           | ug/kg | 332         | <329       | 99        | 57-120       |            |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale

Pace Project No.: 50253312

LABORATORY CONTROL SAMPLE: 2563280

| Parameter            | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|-------------|------------|-----------|--------------|------------|
| Pyrene               | ug/kg | 332         | <329       | 94        | 53-127       |            |
| 2-Fluorobiphenyl (S) | %.    |             |            | 81        | 37-111       |            |
| p-Terphenyl-d14 (S)  | %.    |             |            | 87        | 29-124       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2563281 2563282

| Parameter              | Units | 50253312002 |                 | 2563281   |                 | 2563282   |            | % Rec Limits | RPD    | Max RPD | Qual |
|------------------------|-------|-------------|-----------------|-----------|-----------------|-----------|------------|--------------|--------|---------|------|
|                        |       | MS Result   | MSD Spike Conc. | MS Result | MSD Spike Conc. | MS Result | MSD Result |              |        |         |      |
| 2-Methylnaphthalene    | ug/kg | <382        | 384             | 383       | <380            | <379      | 82         | 83           | 22-135 | 1       | 20   |
| Acenaphthene           | ug/kg | <382        | 384             | 383       | <380            | <379      | 84         | 84           | 34-123 | 1       | 20   |
| Acenaphthylene         | ug/kg | <382        | 384             | 383       | <380            | <379      | 92         | 92           | 34-127 | 0       | 20   |
| Anthracene             | ug/kg | <382        | 384             | 383       | <380            | <379      | 90         | 90           | 15-142 | 1       | 20   |
| Benzo(a)anthracene     | ug/kg | <382        | 384             | 383       | <380            | <379      | 74         | 76           | 23-148 | 2       | 20   |
| Benzo(a)pyrene         | ug/kg | <382        | 384             | 383       | <380            | <379      | 71         | 74           | 19-149 | 3       | 20   |
| Benzo(b)fluoranthene   | ug/kg | <382        | 384             | 383       | <380            | <379      | 71         | 73           | 13-153 | 3       | 20   |
| Benzo(g,h,i)perylene   | ug/kg | <382        | 384             | 383       | <380            | <379      | 71         | 71           | 10-144 | 0       | 20   |
| Benzo(k)fluoranthene   | ug/kg | <382        | 384             | 383       | <380            | <379      | 77         | 74           | 18-142 | 4       | 20   |
| Chrysene               | ug/kg | <382        | 384             | 383       | <380            | <379      | 74         | 72           | 22-146 | 3       | 20   |
| Dibenz(a,h)anthracene  | ug/kg | <382        | 384             | 383       | <380            | <379      | 76         | 76           | 28-133 | 1       | 20   |
| Fluoranthene           | ug/kg | <382        | 384             | 383       | <380            | <379      | 85         | 85           | 13-162 | 0       | 20   |
| Fluorene               | ug/kg | <382        | 384             | 383       | <380            | <379      | 86         | 85           | 32-134 | 1       | 20   |
| Indeno(1,2,3-cd)pyrene | ug/kg | <382        | 384             | 383       | <380            | <379      | 73         | 75           | 15-141 | 2       | 20   |
| Naphthalene            | ug/kg | <382        | 384             | 383       | <380            | <379      | 82         | 82           | 19-131 | 0       | 20   |
| Phenanthrene           | ug/kg | <382        | 384             | 383       | <380            | <379      | 81         | 81           | 16-149 | 0       | 20   |
| Pyrene                 | ug/kg | <382        | 384             | 383       | <380            | <379      | 74         | 75           | 13-152 | 1       | 20   |
| 2-Fluorobiphenyl (S)   | %.    |             |                 |           |                 |           | 67         | 70           | 37-111 |         |      |
| p-Terphenyl-d14 (S)    | %.    |             |                 |           |                 |           | 64         | 74           | 29-124 |         |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50253312

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|                  |          |                       |   |
|------------------|----------|-----------------------|---|
| QC Batch:        | 555559   | Analysis Method:      | SM 2540G                                |
| QC Batch Method: | SM 2540G | Analysis Description: | Dry Weight/Percent Moisture             |
|                  |          | Laboratory:           | Pace Analytical Services - Indianapolis |

Associated Lab Samples: 50253312001, 50253312002, 50253312003, 50253312004, 50253312005, 50253312006, 50253312007

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SAMPLE DUPLICATE: 2562594

| Parameter        | Units | 50253555001<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 21.2                  | 22.0          | 4   | 5          |            |

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SAMPLE DUPLICATE: 2562595

| Parameter        | Units | 50253402001<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 19.4                  | 19.1          | 2   | 5          |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale

Pace Project No.: 50253312

QC Batch: 557593 Analysis Method: EPA 7196A  
 QC Batch Method: EPA 3060A Analysis Description: 7196 Chromium, Hexavalent  
 Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50253312001, 50253312002, 50253312003, 50253312004, 50253312005, 50253312006

METHOD BLANK: 2571809 Matrix: Solid  
 Associated Lab Samples: 50253312001, 50253312002, 50253312003, 50253312004, 50253312005, 50253312006

| Parameter            | Units | Blank Result | Reporting Limit | MDL | Analyzed       | Qualifiers |
|----------------------|-------|--------------|-----------------|-----|----------------|------------|
| Chromium, Hexavalent | mg/kg | <2.0         | 2.0             | 2.0 | 04/18/20 10:41 |            |

LABORATORY CONTROL SAMPLE: 2571810

| Parameter            | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|-------------|------------|-----------|--------------|------------|
| Chromium, Hexavalent | mg/kg | 1000        | 936        | 93        | 80-120       |            |

MATRIX SPIKE SAMPLE: 2571811

| Parameter            | Units | 50253312001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Chromium, Hexavalent | mg/kg | <2.2               | 1090        | 1040      | 95       | 75-125       |            |

MATRIX SPIKE SAMPLE: 2571812

| Parameter            | Units | 50253312001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Chromium, Hexavalent | mg/kg | <2.2               | 44.2        | 39.4      | 86       | 75-125       |            |

SAMPLE DUPLICATE: 2571813

| Parameter            | Units | 50253312002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|----------------------|-------|--------------------|------------|-----|---------|------------|
| Chromium, Hexavalent | mg/kg | <2.3               | <2.3       |     | 20      |            |

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 8 Mile Ferndale

Pace Project No.: 50253312

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

B0 Analyte was detected in an associated blank at a concentration greater than the MDL.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 8 Mile Ferndale

Pace Project No.: 50253312

| Lab ID      | Sample ID       | QC Batch Method         | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------------|-------------------------|----------|-------------------|------------------|
| 50253312002 | MW-116 (7-8')   | EPA 8015 Alcohol-Glycol | 555572   |                   |                  |
| 50253312004 | MW-117 (6-7')   | EPA 8015 Alcohol-Glycol | 555572   |                   |                  |
| 50253312006 | MW-118 (10-11') | EPA 8015 Alcohol-Glycol | 555572   |                   |                  |
| 50253312007 | Dup-1           | EPA 8015 Alcohol-Glycol | 555572   |                   |                  |
| 50253312001 | MW-116 (2-3')   | EPA 3050                | 555146   | EPA 6010          | 555838           |
| 50253312001 | MW-116 (2-3')   | EPA 3050                | 556033   | EPA 6010          | 556261           |
| 50253312002 | MW-116 (7-8')   | EPA 3050                | 555146   | EPA 6010          | 555838           |
| 50253312002 | MW-116 (7-8')   | EPA 3050                | 556033   | EPA 6010          | 556261           |
| 50253312003 | MW-117 (2-3')   | EPA 3050                | 555146   | EPA 6010          | 555838           |
| 50253312003 | MW-117 (2-3')   | EPA 3050                | 556033   | EPA 6010          | 556261           |
| 50253312004 | MW-117 (6-7')   | EPA 3050                | 555146   | EPA 6010          | 555838           |
| 50253312004 | MW-117 (6-7')   | EPA 3050                | 556033   | EPA 6010          | 556261           |
| 50253312005 | MW-118 (2-3')   | EPA 3050                | 555146   | EPA 6010          | 555838           |
| 50253312005 | MW-118 (2-3')   | EPA 3050                | 556033   | EPA 6010          | 556261           |
| 50253312006 | MW-118 (10-11') | EPA 3050                | 555146   | EPA 6010          | 555838           |
| 50253312006 | MW-118 (10-11') | EPA 3050                | 556033   | EPA 6010          | 556261           |
| 50253312007 | Dup-1           | EPA 3050                | 555146   | EPA 6010          | 555838           |
| 50253312007 | Dup-1           | EPA 3050                | 556033   | EPA 6010          | 556261           |
| 50253312001 | MW-116 (2-3')   | EPA 3050B               | 555596   | EPA 6020          | 555608           |
| 50253312002 | MW-116 (7-8')   | EPA 3050B               | 555596   | EPA 6020          | 555608           |
| 50253312003 | MW-117 (2-3')   | EPA 3050B               | 555596   | EPA 6020          | 555608           |
| 50253312004 | MW-117 (6-7')   | EPA 3050B               | 555596   | EPA 6020          | 555608           |
| 50253312005 | MW-118 (2-3')   | EPA 3050B               | 555596   | EPA 6020          | 555608           |
| 50253312006 | MW-118 (10-11') | EPA 3050B               | 555596   | EPA 6020          | 555608           |
| 50253312007 | Dup-1           | EPA 3050B               | 555596   | EPA 6020          | 555608           |
| 50253312001 | MW-116 (2-3')   | EPA 7471                | 555646   | EPA 7471          | 556274           |
| 50253312002 | MW-116 (7-8')   | EPA 7471                | 555646   | EPA 7471          | 556274           |
| 50253312003 | MW-117 (2-3')   | EPA 7471                | 555646   | EPA 7471          | 556274           |
| 50253312004 | MW-117 (6-7')   | EPA 7471                | 555646   | EPA 7471          | 556274           |
| 50253312005 | MW-118 (2-3')   | EPA 7471                | 555646   | EPA 7471          | 556274           |
| 50253312006 | MW-118 (10-11') | EPA 7471                | 555646   | EPA 7471          | 556274           |
| 50253312007 | Dup-1           | EPA 7471                | 555646   | EPA 7471          | 556274           |
| 50253312002 | MW-116 (7-8')   | EPA 3546                | 555767   | EPA 8270 by SIM   | 555844           |
| 50253312004 | MW-117 (6-7')   | EPA 3546                | 555767   | EPA 8270 by SIM   | 555844           |
| 50253312006 | MW-118 (10-11') | EPA 3546                | 555767   | EPA 8270 by SIM   | 555844           |
| 50253312007 | Dup-1           | EPA 3546                | 555767   | EPA 8270 by SIM   | 555844           |
| 50253312002 | MW-116 (7-8')   | EPA 8260                | 555668   |                   |                  |
| 50253312004 | MW-117 (6-7')   | EPA 8260                | 555668   |                   |                  |
| 50253312006 | MW-118 (10-11') | EPA 8260                | 555668   |                   |                  |
| 50253312007 | Dup-1           | EPA 8260                | 555668   |                   |                  |

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 8 Mile Ferndale  
Pace Project No.: 50253312

| Lab ID      | Sample ID       | QC Batch Method                   | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------------|-----------------------------------|----------|-------------------|------------------|
| 50253312008 | Trip Blank      | EPA 8260                          | 555668   |                   |                  |
| 50253312009 | Field Blank     | EPA 8260                          | 555668   |                   |                  |
| 50253312001 | MW-116 (2-3')   | SM 2540G                          | 555559   |                   |                  |
| 50253312002 | MW-116 (7-8')   | SM 2540G                          | 555559   |                   |                  |
| 50253312003 | MW-117 (2-3')   | SM 2540G                          | 555559   |                   |                  |
| 50253312004 | MW-117 (6-7')   | SM 2540G                          | 555559   |                   |                  |
| 50253312005 | MW-118 (2-3')   | SM 2540G                          | 555559   |                   |                  |
| 50253312006 | MW-118 (10-11') | SM 2540G                          | 555559   |                   |                  |
| 50253312007 | Dup-1           | SM 2540G                          | 555559   |                   |                  |
| 50253312001 | MW-116 (2-3')   | EPA 3060A                         | 557593   | EPA 7196A         | 557789           |
| 50253312002 | MW-116 (7-8')   | EPA 3060A                         | 557593   | EPA 7196A         | 557789           |
| 50253312003 | MW-117 (2-3')   | EPA 3060A                         | 557593   | EPA 7196A         | 557789           |
| 50253312004 | MW-117 (6-7')   | EPA 3060A                         | 557593   | EPA 7196A         | 557789           |
| 50253312005 | MW-118 (2-3')   | EPA 3060A                         | 557593   | EPA 7196A         | 557789           |
| 50253312006 | MW-118 (10-11') | EPA 3060A                         | 557593   | EPA 7196A         | 557789           |
| 50253312001 | MW-116 (2-3')   | Trivalent Chromium<br>Calculation | 558526   |                   |                  |
| 50253312002 | MW-116 (7-8')   | Trivalent Chromium<br>Calculation | 558526   |                   |                  |
| 50253312003 | MW-117 (2-3')   | Trivalent Chromium<br>Calculation | 558526   |                   |                  |
| 50253312004 | MW-117 (6-7')   | Trivalent Chromium<br>Calculation | 558526   |                   |                  |
| 50253312005 | MW-118 (2-3')   | Trivalent Chromium<br>Calculation | 558526   |                   |                  |
| 50253312006 | MW-118 (10-11') | Trivalent Chromium<br>Calculation | 558526   |                   |                  |

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## Sample Conditions Upon Receipt Form (SCUR)

|  |  |   |    |   |  |           |
|--|--|---|----|---|--|-----------|
| Date/Time: <u>3.31.20</u>  |  | Evaluated by: <u>WDC</u>                    |    | <b>WO#: 50253312</b><br>PM: <u>BJH</u> Due Date: <u>04/09/20</u><br>CLIENT: <u>GR-ATC</u> |  |           |
| Client: <u>ATC</u>   |  | Profile ID:                                 |    |   |  |           |
| Project Manager: <u>BJH</u>  |  | Due Date:                                   |    |   |  |           |
| Rush TAT Requested:    YES    NO   |  | Due Date:                                   |    |   |  |           |
| Lab Notified of Rush or Short Holds:    YES    NO  |  | Non Conformance Form Required:    YES    NO |    |   |  |           |
| Samples Received Via:    FedEx    UPS    Client    Pace Courier    Other: _____  |  |   |    |   |  | Comments: |
| Custody Seals Present and Intact:  |  | YES   | NO | NA  |  |           |
| Received Sample Information Form(s): Drinking Waters Only  |  | YES   | NO | NA  |  |           |
| USDA Regulated Soils: (AL, AR, CA, FL, GA, ID, LA, MS, NM, NY, NC, OK, OR, SC, TN, TX, WA or Puerto Rico)  |  | YES   | NO | N/A   |  |           |
| Short Holds Present (< 72 Hours):  |  | YES   | NO |   |  |           |
| Samples Received in Hold:  |  | YES   | NO |   |  |           |
| Custody Signatures Present:  |  | YES   | NO |   |  |           |
| Collector Signature Present:   |  | YES   | NO |   |  |           |
| Packing Material Used:   |  | YES   | NO |   |  |           |
| Samples Collected Today and On Ice:  |  | YES   | NO | N/A   |  |           |
| IR Gun #:    280    281  |  | Digital Thermometer #:    282    283        |    |   |  |           |
| Ice Type:    WET Bagged / WET Loose    BLUE    NONE  |  | 1. Cooler Temp Upon Receipt: <u>4.11</u> °C |    |   |  |           |
| Ice Location:    TOP    BOTTOM    MIDDLE    DISPERSED  |  | Temp should be 0-6°C (Initial/Corrected)    |    |   |  |           |
| Temp Blank Received:   |  | YES   | NO |   |  |           |
| Containers Intact:   |  | YES   | NO |   |  |           |
| Correct Containers:  |  | YES   | NO |   |  |           |
| Sufficient Volume:   |  | YES   | NO |   |  |           |
| Sample pH Acceptable: All containers needing preservation are found to be in compliance with EPA recommendation<br>Exceptions are VOA, coliform, LLHg, O&G, or any container with a septum cap or preserved with HCl |  | YES   | NO | N/A   |  |           |
| Residual Chlorine Absent:<br>(SVOC/Pest 625, PCB 608, Total/Amenable/Available Cyanide)  |  | YES   | NO | N/A   |  |           |
| VOA Headspace Acceptable (<6mm):   |  | YES   | NO | N/A   |  |           |
| Trip Blank Received:    HCl    MeOH    TSP    OTHER  |  | YES   | NO |   |  |           |
| Comments:  |  | 2. Cooler Temp Upon Receipt: _____ °C       |    |   |  |           |
|  |  | 3. Cooler Temp Upon Receipt: _____ °C       |    |   |  |           |
|  |  | 4. Cooler Temp Upon Receipt: _____ °C       |    |   |  |           |
|  |  |   |    |   |  |           |

May 04, 2020

Joshua Schuyler  
ATC Group Services - Novi  
46555 Humboldt Drive  
Suite 100  
Novi, MI 48377

RE: Project: 8 Mile Ferndale  
Pace Project No.: 50255203

Dear Joshua Schuyler:

Enclosed are the analytical results for sample(s) received by the laboratory on April 22, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Brian Hall  
brian.hall@pacelabs.com  
(616)975-4500  
Project Manager

Enclosures

cc: AP c/o Abigail Jardine, ATC Group Services  
Michael Hauswirth, ATC Group Services  
April Hehir



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 8 Mile Ferndale  
Pace Project No.: 50255203

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### **Pace Analytical Services Indianapolis**

7726 Moller Road, Indianapolis, IN 46268  
Illinois Accreditation #: 200074  
Indiana Drinking Water Laboratory #: C-49-06  
Kansas/TNI Certification #: E-10177  
Kentucky UST Agency Interest #: 80226  
Kentucky WW Laboratory ID #: 98019  
Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065  
Oklahoma Laboratory #: 9204  
Texas Certification #: T104704355  
West Virginia Certification #: 330  
Wisconsin Laboratory #: 999788130  
USDA Soil Permit #: P330-19-00257

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 8 Mile Ferndale  
Pace Project No.: 50255203

| Lab ID      | Sample ID   | Matrix | Date Collected | Date Received  |
|-------------|-------------|--------|----------------|----------------|
| 50255203001 | MW-121_2-3  | Solid  | 04/21/20 11:00 | 04/22/20 09:50 |
| 50255203002 | MW-121_9-10 | Solid  | 04/21/20 11:05 | 04/22/20 09:50 |
| 50255203003 | MW-120_2-3  | Solid  | 04/21/20 12:15 | 04/22/20 09:50 |
| 50255203004 | MW-120_4-5  | Solid  | 04/21/20 12:20 | 04/22/20 09:50 |
| 50255203005 | MW-119_2-3  | Solid  | 04/21/20 13:05 | 04/22/20 09:50 |
| 50255203006 | MW-119_6-7  | Solid  | 04/21/20 13:15 | 04/22/20 09:50 |
| 50255203007 | MW-115 Comp | Solid  | 04/21/20 17:30 | 04/22/20 09:50 |

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 8 Mile Ferndale  
Pace Project No.: 50255203

| Lab ID      | Sample ID   | Method                  | Analysts | Analytes Reported |
|-------------|-------------|-------------------------|----------|-------------------|
| 50255203001 | MW-121_2-3  | EPA 6010                | FRW      | 4                 |
|             |             | EPA 6020                | DMT      | 3                 |
|             |             | EPA 7471                | ILP      | 1                 |
|             |             | SM 2540G                | SKK      | 1                 |
| 50255203002 | MW-121_9-10 | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |             | EPA 6010                | FRW      | 4                 |
|             |             | EPA 6020                | DMT      | 3                 |
|             |             | EPA 7471                | ILP      | 1                 |
|             |             | EPA 8270 by SIM         | LWG      | 19                |
|             |             | EPA 8260                | JPV      | 75                |
|             |             | SM 2540G                | SKK      | 1                 |
| 50255203003 | MW-120_2-3  | EPA 6010                | FRW      | 4                 |
|             |             | EPA 6020                | DMT      | 3                 |
|             |             | EPA 7471                | ILP      | 1                 |
|             |             | SM 2540G                | SKK      | 1                 |
| 50255203004 | MW-120_4-5  | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |             | EPA 6010                | FRW      | 4                 |
|             |             | EPA 6020                | DMT      | 3                 |
|             |             | EPA 7471                | ILP      | 1                 |
|             |             | EPA 8270 by SIM         | LWG      | 19                |
|             |             | EPA 8260                | JPV      | 75                |
| 50255203005 | MW-119_2-3  | SM 2540G                | SKK      | 1                 |
|             |             | EPA 6010                | FRW      | 4                 |
|             |             | EPA 6020                | DMT      | 3                 |
|             |             | EPA 7471                | ILP      | 1                 |
| 50255203006 | MW-119_6-7  | SM 2540G                | SKK      | 1                 |
|             |             | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |             | EPA 6010                | FRW      | 4                 |
|             |             | EPA 6020                | DMT      | 3                 |
|             |             | EPA 7471                | ILP      | 1                 |
| 50255203007 | MW-115 Comp | EPA 8270 by SIM         | LWG      | 19                |
|             |             | EPA 8260                | JPV      | 75                |
|             |             | SM 2540G                | SKK      | 1                 |
|             |             | EPA 6010                | KJE      | 3                 |
|             |             | EPA 6010                | KJE      | 3                 |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50255203

**Sample: MW-121\_2-3**      **Lab ID: 50255203001**      Collected: 04/21/20 11:00      Received: 04/22/20 09:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results          | Units | PQL   | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|------------------|-------|-------|-------|----|----------------|----------------|-----------|------|
| <b>6010 MET ICP</b>  |                  |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 6010    Preparation Method: EPA 3050  |                  |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                      |                  |       |       |       |    |                |                |           |      |
| Arsenic  | <b>3120</b>      | ug/kg | 2010  | 2010  | 1  | 05/01/20 06:05 | 05/01/20 13:19 | 7440-38-2 |      |
| Barium   | <b>19700</b>     | ug/kg | 1000  | 1000  | 1  | 05/01/20 06:05 | 05/01/20 13:19 | 7440-39-3 |      |
| Chromium   | <b>7240</b>      | ug/kg | 2010  | 2010  | 1  | 05/01/20 06:05 | 05/01/20 13:19 | 7440-47-3 |      |
| Lead   | <b>&lt;10000</b> | ug/kg | 10000 | 10000 | 1  | 05/01/20 06:05 | 05/01/20 13:19 | 7439-92-1 |      |
| <b>6020 MET ICPMS</b>  |                  |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 6020    Preparation Method: EPA 3050B |                  |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                      |                  |       |       |       |    |                |                |           |      |
| Cadmium  | <b>&lt;213</b>   | ug/kg | 213   | 213   | 1  | 04/27/20 08:45 | 04/29/20 08:40 | 7440-43-9 |      |
| Selenium   | <b>&lt;1070</b>  | ug/kg | 1070  | 1070  | 5  | 04/27/20 08:45 | 04/29/20 15:31 | 7782-49-2 | D3   |
| Silver   | <b>&lt;107</b>   | ug/kg | 107   | 107   | 1  | 04/27/20 08:45 | 04/29/20 08:40 | 7440-22-4 |      |
| <b>7471 Mercury</b>  |                  |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 7471    Preparation Method: EPA 7471  |                  |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                      |                  |       |       |       |    |                |                |           |      |
| Mercury  | <b>&lt;55.9</b>  | ug/kg | 99.9  | 55.9  | 1  | 04/30/20 10:22 | 05/01/20 09:36 | 7439-97-6 |      |
| <b>Percent Moisture</b>                                      |                  |       |       |       |    |                |                |           |      |
| Analytical Method: SM 2540G                                  |                  |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                      |                  |       |       |       |    |                |                |           |      |
| Percent Moisture   | <b>8.1</b>       | %     | 0.10  | 0.10  | 1  |                | 04/24/20 12:27 |           |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50255203

**Sample: MW-121\_9-10**      **Lab ID: 50255203002**      Collected: 04/21/20 11:05      Received: 04/22/20 09:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                      |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                           |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| n-Butanol  | <5020   | ug/kg | 5020   | 5020  | 1  |                | 04/24/20 00:00 | 71-36-3   |      |
| Ethanol  | <2850   | ug/kg | 2850   | 2850  | 1  |                | 04/24/20 00:00 | 64-17-5   |      |
| Methanol   | 60100   | ug/kg | 5020   | 5020  | 1  |                | 04/24/20 00:00 | 67-56-1   |      |
| <b>6010 MET ICP</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050        |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Arsenic  | <2200   | ug/kg | 2200   | 2200  | 1  | 05/01/20 06:05 | 05/01/20 13:21 | 7440-38-2 |      |
| Barium   | 7690    | ug/kg | 1100   | 1100  | 1  | 05/01/20 06:05 | 05/01/20 13:21 | 7440-39-3 |      |
| Chromium   | 3040    | ug/kg | 2200   | 2200  | 1  | 05/01/20 06:05 | 05/01/20 13:21 | 7440-47-3 |      |
| Lead   | <11000  | ug/kg | 11000  | 11000 | 1  | 05/01/20 06:05 | 05/01/20 13:21 | 7439-92-1 |      |
| <b>6020 MET ICPMS</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B       |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Cadmium  | <220    | ug/kg | 220    | 220   | 1  | 04/27/20 08:45 | 04/29/20 09:40 | 7440-43-9 |      |
| Selenium   | <1100   | ug/kg | 1100   | 1100  | 5  | 04/27/20 08:45 | 04/29/20 16:03 | 7782-49-2 | D3   |
| Silver   | <110    | ug/kg | 110    | 110   | 1  | 04/27/20 08:45 | 04/29/20 09:40 | 7440-22-4 |      |
| <b>7471 Mercury</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7471      Preparation Method: EPA 7471        |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Mercury  | <62.3   | ug/kg | 111    | 62.3  | 1  | 04/30/20 10:22 | 05/01/20 09:39 | 7439-97-6 |      |
| <b>8270 PAH Soil</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546 |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Acenaphthene   | <369    | ug/kg | 369    | 369   | 1  | 04/29/20 11:05 | 04/29/20 18:10 | 83-32-9   |      |
| Acenaphthylene   | <369    | ug/kg | 369    | 369   | 1  | 04/29/20 11:05 | 04/29/20 18:10 | 208-96-8  |      |
| Anthracene   | <369    | ug/kg | 369    | 369   | 1  | 04/29/20 11:05 | 04/29/20 18:10 | 120-12-7  |      |
| Benzo(a)anthracene   | <369    | ug/kg | 369    | 369   | 1  | 04/29/20 11:05 | 04/29/20 18:10 | 56-55-3   |      |
| Benzo(a)pyrene   | <369    | ug/kg | 369    | 369   | 1  | 04/29/20 11:05 | 04/29/20 18:10 | 50-32-8   |      |
| Benzo(b)fluoranthene   | <369    | ug/kg | 369    | 369   | 1  | 04/29/20 11:05 | 04/29/20 18:10 | 205-99-2  |      |
| Benzo(g,h,i)perylene   | <369    | ug/kg | 369    | 369   | 1  | 04/29/20 11:05 | 04/29/20 18:10 | 191-24-2  |      |
| Benzo(k)fluoranthene   | <369    | ug/kg | 369    | 369   | 1  | 04/29/20 11:05 | 04/29/20 18:10 | 207-08-9  |      |
| Chrysene   | <369    | ug/kg | 369    | 369   | 1  | 04/29/20 11:05 | 04/29/20 18:10 | 218-01-9  |      |
| Dibenz(a,h)anthracene  | <369    | ug/kg | 369    | 369   | 1  | 04/29/20 11:05 | 04/29/20 18:10 | 53-70-3   |      |
| Fluoranthene   | <369    | ug/kg | 369    | 369   | 1  | 04/29/20 11:05 | 04/29/20 18:10 | 206-44-0  |      |
| Fluorene   | <369    | ug/kg | 369    | 369   | 1  | 04/29/20 11:05 | 04/29/20 18:10 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | <369    | ug/kg | 369    | 369   | 1  | 04/29/20 11:05 | 04/29/20 18:10 | 193-39-5  |      |
| 2-Methylnaphthalene  | <369    | ug/kg | 369    | 369   | 1  | 04/29/20 11:05 | 04/29/20 18:10 | 91-57-6   |      |
| Naphthalene  | <369    | ug/kg | 369    | 369   | 1  | 04/29/20 11:05 | 04/29/20 18:10 | 91-20-3   |      |
| Phenanthrene   | <369    | ug/kg | 369    | 369   | 1  | 04/29/20 11:05 | 04/29/20 18:10 | 85-01-8   |      |
| Pyrene   | <369    | ug/kg | 369    | 369   | 1  | 04/29/20 11:05 | 04/29/20 18:10 | 129-00-0  |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)   | 86      | %     | 37-111 |       | 1  | 04/29/20 11:05 | 04/29/20 18:10 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 82      | %     | 29-124 |       | 1  | 04/29/20 11:05 | 04/29/20 18:10 | 1718-51-0 |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50255203

Sample: MW-121\_9-10 Lab ID: 50255203002 Collected: 04/21/20 11:05 Received: 04/22/20 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Acetone                        | <1370   | ug/kg  | 1370 | 1370 | 1  |          | 04/24/20 02:48 | 67-64-1    |      |
| Acrylonitrile                  | <137    | ug/kg  | 137  | 137  | 1  |          | 04/24/20 02:48 | 107-13-1   |      |
| tert-Amyl methyl ether         | <343    | ug/kg  | 343  | 343  | 1  |          | 04/24/20 02:48 | 994-05-8   | N2   |
| Benzene                        | <68.5   | ug/kg  | 68.5 | 68.5 | 1  |          | 04/24/20 02:48 | 71-43-2    |      |
| Bromobenzene                   | <137    | ug/kg  | 137  | 137  | 1  |          | 04/24/20 02:48 | 108-86-1   |      |
| Bromochloromethane             | <34.3   | ug/kg  | 68.5 | 34.3 | 1  |          | 04/24/20 02:48 | 74-97-5    |      |
| Bromodichloromethane           | <137    | ug/kg  | 137  | 137  | 1  |          | 04/24/20 02:48 | 75-27-4    |      |
| Bromoform                      | <137    | ug/kg  | 137  | 137  | 1  |          | 04/24/20 02:48 | 75-25-2    |      |
| Bromomethane                   | <274    | ug/kg  | 274  | 274  | 1  |          | 04/24/20 02:48 | 74-83-9    |      |
| 2-Butanone (MEK)               | <1030   | ug/kg  | 1030 | 1030 | 1  |          | 04/24/20 02:48 | 78-93-3    |      |
| tert-Butyl Alcohol             | <3430   | ug/kg  | 3430 | 3430 | 1  |          | 04/24/20 02:48 | 75-65-0    |      |
| n-Butylbenzene                 | <68.5   | ug/kg  | 68.5 | 68.5 | 1  |          | 04/24/20 02:48 | 104-51-8   |      |
| sec-Butylbenzene               | <68.5   | ug/kg  | 68.5 | 68.5 | 1  |          | 04/24/20 02:48 | 135-98-8   |      |
| tert-Butylbenzene              | <68.5   | ug/kg  | 68.5 | 68.5 | 1  |          | 04/24/20 02:48 | 98-06-6    |      |
| Carbon disulfide               | <343    | ug/kg  | 343  | 343  | 1  |          | 04/24/20 02:48 | 75-15-0    |      |
| Carbon tetrachloride           | <68.5   | ug/kg  | 68.5 | 68.5 | 1  |          | 04/24/20 02:48 | 56-23-5    |      |
| Chlorobenzene                  | <68.5   | ug/kg  | 68.5 | 68.5 | 1  |          | 04/24/20 02:48 | 108-90-7   |      |
| Chloroethane                   | <343    | ug/kg  | 343  | 343  | 1  |          | 04/24/20 02:48 | 75-00-3    |      |
| Chloroform                     | <68.5   | ug/kg  | 68.5 | 68.5 | 1  |          | 04/24/20 02:48 | 67-66-3    |      |
| Chloromethane                  | <343    | ug/kg  | 343  | 343  | 1  |          | 04/24/20 02:48 | 74-87-3    |      |
| Cyclohexane                    | <685    | ug/kg  | 685  | 685  | 1  |          | 04/24/20 02:48 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <68.5   | ug/kg  | 68.5 | 68.5 | 1  |          | 04/24/20 02:48 | 96-12-8    |      |
| Dibromochloromethane           | <137    | ug/kg  | 137  | 137  | 1  |          | 04/24/20 02:48 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <68.5   | ug/kg  | 68.5 | 68.5 | 1  |          | 04/24/20 02:48 | 106-93-4   |      |
| Dibromomethane                 | <343    | ug/kg  | 343  | 343  | 1  |          | 04/24/20 02:48 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <137    | ug/kg  | 137  | 137  | 1  |          | 04/24/20 02:48 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <137    | ug/kg  | 137  | 137  | 1  |          | 04/24/20 02:48 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <137    | ug/kg  | 137  | 137  | 1  |          | 04/24/20 02:48 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <137    | ug/kg  | 1370 | 137  | 1  |          | 04/24/20 02:48 | 110-57-6   |      |
| Dichlorodifluoromethane        | <343    | ug/kg  | 343  | 343  | 1  |          | 04/24/20 02:48 | 75-71-8    |      |
| 1,1-Dichloroethane             | <68.5   | ug/kg  | 68.5 | 68.5 | 1  |          | 04/24/20 02:48 | 75-34-3    |      |
| 1,2-Dichloroethane             | <68.5   | ug/kg  | 68.5 | 68.5 | 1  |          | 04/24/20 02:48 | 107-06-2   |      |
| 1,1-Dichloroethene             | <68.5   | ug/kg  | 68.5 | 68.5 | 1  |          | 04/24/20 02:48 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <68.5   | ug/kg  | 68.5 | 68.5 | 1  |          | 04/24/20 02:48 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <68.5   | ug/kg  | 68.5 | 68.5 | 1  |          | 04/24/20 02:48 | 156-60-5   |      |
| 1,2-Dichloropropane            | <68.5   | ug/kg  | 68.5 | 68.5 | 1  |          | 04/24/20 02:48 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <137    | ug/kg  | 137  | 137  | 1  |          | 04/24/20 02:48 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <137    | ug/kg  | 137  | 137  | 1  |          | 04/24/20 02:48 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <274    | ug/kg  | 274  | 274  | 1  |          | 04/24/20 02:48 | 60-29-7    |      |
| Diisopropyl ether              | <343    | ug/kg  | 343  | 343  | 1  |          | 04/24/20 02:48 | 108-20-3   | N2   |
| Ethylbenzene                   | <68.5   | ug/kg  | 68.5 | 68.5 | 1  |          | 04/24/20 02:48 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <343    | ug/kg  | 343  | 343  | 1  |          | 04/24/20 02:48 | 637-92-3   | N2   |
| Hexachloroethane               | <411    | ug/kg  | 411  | 411  | 1  |          | 04/24/20 02:48 | 67-72-1    | N2   |
| 2-Hexanone                     | <3430   | ug/kg  | 3430 | 3430 | 1  |          | 04/24/20 02:48 | 591-78-6   |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale

Pace Project No.: 50255203

Sample: MW-121\_9-10 Lab ID: 50255203002 Collected: 04/21/20 11:05 Received: 04/22/20 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Iodomethane                             | <137    | ug/kg | 1370   | 137  | 1  |          | 04/24/20 02:48 | 74-88-4     |      |
| Isopropylbenzene (Cumene)               | <343    | ug/kg | 343    | 343  | 1  |          | 04/24/20 02:48 | 98-82-8     |      |
| p-Isopropyltoluene                      | <34.3   | ug/kg | 68.5   | 34.3 | 1  |          | 04/24/20 02:48 | 99-87-6     |      |
| Methylene Chloride                      | <137    | ug/kg | 137    | 137  | 1  |          | 04/24/20 02:48 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <452    | ug/kg | 452    | 452  | 1  |          | 04/24/20 02:48 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <3430   | ug/kg | 3430   | 3430 | 1  |          | 04/24/20 02:48 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <343    | ug/kg | 343    | 343  | 1  |          | 04/24/20 02:48 | 1634-04-4   |      |
| Naphthalene                             | <452    | ug/kg | 452    | 452  | 1  |          | 04/24/20 02:48 | 91-20-3     |      |
| n-Propylbenzene                         | <137    | ug/kg | 137    | 137  | 1  |          | 04/24/20 02:48 | 103-65-1    |      |
| Styrene                                 | <68.5   | ug/kg | 68.5   | 68.5 | 1  |          | 04/24/20 02:48 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <137    | ug/kg | 137    | 137  | 1  |          | 04/24/20 02:48 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <68.5   | ug/kg | 68.5   | 68.5 | 1  |          | 04/24/20 02:48 | 79-34-5     |      |
| Tetrachloroethene                       | <68.5   | ug/kg | 68.5   | 68.5 | 1  |          | 04/24/20 02:48 | 127-18-4    |      |
| Tetrahydrofuran                         | <1370   | ug/kg | 1370   | 1370 | 1  |          | 04/24/20 02:48 | 109-99-9    | N2   |
| Toluene                                 | <137    | ug/kg | 137    | 137  | 1  |          | 04/24/20 02:48 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <343    | ug/kg | 343    | 343  | 1  |          | 04/24/20 02:48 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <343    | ug/kg | 343    | 343  | 1  |          | 04/24/20 02:48 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <68.5   | ug/kg | 68.5   | 68.5 | 1  |          | 04/24/20 02:48 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <68.5   | ug/kg | 68.5   | 68.5 | 1  |          | 04/24/20 02:48 | 79-00-5     |      |
| Trichloroethene                         | <68.5   | ug/kg | 68.5   | 68.5 | 1  |          | 04/24/20 02:48 | 79-01-6     |      |
| Trichlorofluoromethane                  | <137    | ug/kg | 137    | 137  | 1  |          | 04/24/20 02:48 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <137    | ug/kg | 137    | 137  | 1  |          | 04/24/20 02:48 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <343    | ug/kg | 343    | 343  | 1  |          | 04/24/20 02:48 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <137    | ug/kg | 137    | 137  | 1  |          | 04/24/20 02:48 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <137    | ug/kg | 137    | 137  | 1  |          | 04/24/20 02:48 | 108-67-8    |      |
| Vinyl chloride                          | <54.8   | ug/kg | 54.8   | 54.8 | 1  |          | 04/24/20 02:48 | 75-01-4     |      |
| m&p-Xylene                              | <34.3   | ug/kg | 68.5   | 34.3 | 1  |          | 04/24/20 02:48 | 179601-23-1 |      |
| o-Xylene                                | <34.3   | ug/kg | 68.5   | 34.3 | 1  |          | 04/24/20 02:48 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 113     | %     | 62-137 |      | 1  |          | 04/24/20 02:48 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 111     | %     | 64-139 |      | 1  |          | 04/24/20 02:48 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 109     | %     | 60-142 |      | 1  |          | 04/24/20 02:48 | 460-00-4    |      |

**Percent Moisture**

Analytical Method: SM 2540G

Pace Analytical Services - Indianapolis

|                  |      |   |      |      |   |  |                |  |  |
|------------------|------|---|------|------|---|--|----------------|--|--|
| Percent Moisture | 12.4 | % | 0.10 | 0.10 | 1 |  | 04/24/20 12:28 |  |  |
|------------------|------|---|------|------|---|--|----------------|--|--|

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50255203

**Sample: MW-120\_2-3**      **Lab ID: 50255203003**      Collected: 04/21/20 12:15      Received: 04/22/20 09:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL   | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|-------|-------|----|----------------|----------------|-----------|------|
| <b>6010 MET ICP</b>                                       |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050  |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |       |    |                |                |           |      |
| Arsenic   | <2060   | ug/kg | 2060  | 2060  | 1  | 05/01/20 06:05 | 05/01/20 13:23 | 7440-38-2 |      |
| Barium  | 11200   | ug/kg | 1030  | 1030  | 1  | 05/01/20 06:05 | 05/01/20 13:23 | 7440-39-3 |      |
| Chromium  | 5240    | ug/kg | 2060  | 2060  | 1  | 05/01/20 06:05 | 05/01/20 13:23 | 7440-47-3 |      |
| Lead  | <10300  | ug/kg | 10300 | 10300 | 1  | 05/01/20 06:05 | 05/01/20 13:23 | 7439-92-1 |      |
| <b>6020 MET ICPMS</b>                                     |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |       |    |                |                |           |      |
| Cadmium   | <210    | ug/kg | 210   | 210   | 1  | 04/27/20 08:45 | 04/29/20 09:44 | 7440-43-9 |      |
| Selenium  | <1050   | ug/kg | 1050  | 1050  | 5  | 04/27/20 08:45 | 04/29/20 16:08 | 7782-49-2 | D3   |
| Silver  | <105    | ug/kg | 105   | 105   | 1  | 04/27/20 08:45 | 04/29/20 09:44 | 7440-22-4 |      |
| <b>7471 Mercury</b>                                       |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471  |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |       |    |                |                |           |      |
| Mercury   | <54.8   | ug/kg | 97.9  | 54.8  | 1  | 04/30/20 10:22 | 05/01/20 09:41 | 7439-97-6 |      |
| <b>Percent Moisture</b>                                   |         |       |       |       |    |                |                |           |      |
| Analytical Method: SM 2540G                               |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |       |    |                |                |           |      |
| Percent Moisture  | 6.0     | %     | 0.10  | 0.10  | 1  |                | 04/24/20 12:28 |           |      |

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50255203

**Sample: MW-120\_4-5**      **Lab ID: 50255203004**      Collected: 04/21/20 12:20      Received: 04/22/20 09:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                      |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                           |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| n-Butanol  | <5410   | ug/kg | 5410   | 5410  | 1  |                | 04/24/20 00:09 | 71-36-3   |      |
| Ethanol  | <3070   | ug/kg | 3070   | 3070  | 1  |                | 04/24/20 00:09 | 64-17-5   |      |
| Methanol   | 175000  | ug/kg | 5410   | 5410  | 1  |                | 04/24/20 00:09 | 67-56-1   |      |
| <b>6010 MET ICP</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050        |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Arsenic  | <2170   | ug/kg | 2170   | 2170  | 1  | 05/01/20 06:05 | 05/01/20 13:26 | 7440-38-2 |      |
| Barium   | 8570    | ug/kg | 1090   | 1090  | 1  | 05/01/20 06:05 | 05/01/20 13:26 | 7440-39-3 |      |
| Chromium   | 4410    | ug/kg | 2170   | 2170  | 1  | 05/01/20 06:05 | 05/01/20 13:26 | 7440-47-3 |      |
| Lead   | <10900  | ug/kg | 10900  | 10900 | 1  | 05/01/20 06:05 | 05/01/20 13:26 | 7439-92-1 |      |
| <b>6020 MET ICPMS</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B       |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Cadmium  | <240    | ug/kg | 240    | 240   | 1  | 04/27/20 08:45 | 04/29/20 10:07 | 7440-43-9 |      |
| Selenium   | <1200   | ug/kg | 1200   | 1200  | 5  | 04/27/20 08:45 | 04/29/20 16:13 | 7782-49-2 | D3   |
| Silver   | <120    | ug/kg | 120    | 120   | 1  | 04/27/20 08:45 | 04/29/20 10:07 | 7440-22-4 |      |
| <b>7471 Mercury</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7471      Preparation Method: EPA 7471        |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Mercury  | <67.3   | ug/kg | 120    | 67.3  | 1  | 04/30/20 10:22 | 05/01/20 09:43 | 7439-97-6 |      |
| <b>8270 PAH Soil</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546 |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Acenaphthene   | <401    | ug/kg | 401    | 401   | 1  | 04/29/20 11:05 | 04/29/20 18:25 | 83-32-9   |      |
| Acenaphthylene   | <401    | ug/kg | 401    | 401   | 1  | 04/29/20 11:05 | 04/29/20 18:25 | 208-96-8  |      |
| Anthracene   | <401    | ug/kg | 401    | 401   | 1  | 04/29/20 11:05 | 04/29/20 18:25 | 120-12-7  |      |
| Benzo(a)anthracene   | <401    | ug/kg | 401    | 401   | 1  | 04/29/20 11:05 | 04/29/20 18:25 | 56-55-3   |      |
| Benzo(a)pyrene   | <401    | ug/kg | 401    | 401   | 1  | 04/29/20 11:05 | 04/29/20 18:25 | 50-32-8   |      |
| Benzo(b)fluoranthene   | <401    | ug/kg | 401    | 401   | 1  | 04/29/20 11:05 | 04/29/20 18:25 | 205-99-2  |      |
| Benzo(g,h,i)perylene   | <401    | ug/kg | 401    | 401   | 1  | 04/29/20 11:05 | 04/29/20 18:25 | 191-24-2  |      |
| Benzo(k)fluoranthene   | <401    | ug/kg | 401    | 401   | 1  | 04/29/20 11:05 | 04/29/20 18:25 | 207-08-9  |      |
| Chrysene   | <401    | ug/kg | 401    | 401   | 1  | 04/29/20 11:05 | 04/29/20 18:25 | 218-01-9  |      |
| Dibenz(a,h)anthracene  | <401    | ug/kg | 401    | 401   | 1  | 04/29/20 11:05 | 04/29/20 18:25 | 53-70-3   |      |
| Fluoranthene   | <401    | ug/kg | 401    | 401   | 1  | 04/29/20 11:05 | 04/29/20 18:25 | 206-44-0  |      |
| Fluorene   | <401    | ug/kg | 401    | 401   | 1  | 04/29/20 11:05 | 04/29/20 18:25 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | <401    | ug/kg | 401    | 401   | 1  | 04/29/20 11:05 | 04/29/20 18:25 | 193-39-5  |      |
| 2-Methylnaphthalene  | <401    | ug/kg | 401    | 401   | 1  | 04/29/20 11:05 | 04/29/20 18:25 | 91-57-6   |      |
| Naphthalene  | <401    | ug/kg | 401    | 401   | 1  | 04/29/20 11:05 | 04/29/20 18:25 | 91-20-3   |      |
| Phenanthrene   | <401    | ug/kg | 401    | 401   | 1  | 04/29/20 11:05 | 04/29/20 18:25 | 85-01-8   |      |
| Pyrene   | <401    | ug/kg | 401    | 401   | 1  | 04/29/20 11:05 | 04/29/20 18:25 | 129-00-0  |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)   | 70      | %     | 37-111 |       | 1  | 04/29/20 11:05 | 04/29/20 18:25 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 62      | %     | 29-124 |       | 1  | 04/29/20 11:05 | 04/29/20 18:25 | 1718-51-0 |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50255203

**Sample: MW-120\_4-5**      **Lab ID: 50255203004**      Collected: 04/21/20 12:20      Received: 04/22/20 09:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Acetone                        | <1470   | ug/kg  | 1470 | 1470 | 1  |          | 04/24/20 03:15 | 67-64-1    |      |
| Acrylonitrile                  | <147    | ug/kg  | 147  | 147  | 1  |          | 04/24/20 03:15 | 107-13-1   |      |
| tert-Amyl methyl ether         | <369    | ug/kg  | 369  | 369  | 1  |          | 04/24/20 03:15 | 994-05-8   | N2   |
| Benzene                        | <73.7   | ug/kg  | 73.7 | 73.7 | 1  |          | 04/24/20 03:15 | 71-43-2    |      |
| Bromobenzene                   | <147    | ug/kg  | 147  | 147  | 1  |          | 04/24/20 03:15 | 108-86-1   |      |
| Bromochloromethane             | <36.9   | ug/kg  | 73.7 | 36.9 | 1  |          | 04/24/20 03:15 | 74-97-5    |      |
| Bromodichloromethane           | <147    | ug/kg  | 147  | 147  | 1  |          | 04/24/20 03:15 | 75-27-4    |      |
| Bromoform                      | <147    | ug/kg  | 147  | 147  | 1  |          | 04/24/20 03:15 | 75-25-2    |      |
| Bromomethane                   | <295    | ug/kg  | 295  | 295  | 1  |          | 04/24/20 03:15 | 74-83-9    |      |
| 2-Butanone (MEK)               | <1110   | ug/kg  | 1110 | 1110 | 1  |          | 04/24/20 03:15 | 78-93-3    |      |
| tert-Butyl Alcohol             | <3690   | ug/kg  | 3690 | 3690 | 1  |          | 04/24/20 03:15 | 75-65-0    |      |
| n-Butylbenzene                 | <73.7   | ug/kg  | 73.7 | 73.7 | 1  |          | 04/24/20 03:15 | 104-51-8   |      |
| sec-Butylbenzene               | <73.7   | ug/kg  | 73.7 | 73.7 | 1  |          | 04/24/20 03:15 | 135-98-8   |      |
| tert-Butylbenzene              | <73.7   | ug/kg  | 73.7 | 73.7 | 1  |          | 04/24/20 03:15 | 98-06-6    |      |
| Carbon disulfide               | <369    | ug/kg  | 369  | 369  | 1  |          | 04/24/20 03:15 | 75-15-0    |      |
| Carbon tetrachloride           | <73.7   | ug/kg  | 73.7 | 73.7 | 1  |          | 04/24/20 03:15 | 56-23-5    |      |
| Chlorobenzene                  | <73.7   | ug/kg  | 73.7 | 73.7 | 1  |          | 04/24/20 03:15 | 108-90-7   |      |
| Chloroethane                   | <369    | ug/kg  | 369  | 369  | 1  |          | 04/24/20 03:15 | 75-00-3    |      |
| Chloroform                     | <73.7   | ug/kg  | 73.7 | 73.7 | 1  |          | 04/24/20 03:15 | 67-66-3    |      |
| Chloromethane                  | <369    | ug/kg  | 369  | 369  | 1  |          | 04/24/20 03:15 | 74-87-3    |      |
| Cyclohexane                    | <737    | ug/kg  | 737  | 737  | 1  |          | 04/24/20 03:15 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <73.7   | ug/kg  | 73.7 | 73.7 | 1  |          | 04/24/20 03:15 | 96-12-8    |      |
| Dibromochloromethane           | <147    | ug/kg  | 147  | 147  | 1  |          | 04/24/20 03:15 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <73.7   | ug/kg  | 73.7 | 73.7 | 1  |          | 04/24/20 03:15 | 106-93-4   |      |
| Dibromomethane                 | <369    | ug/kg  | 369  | 369  | 1  |          | 04/24/20 03:15 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <147    | ug/kg  | 147  | 147  | 1  |          | 04/24/20 03:15 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <147    | ug/kg  | 147  | 147  | 1  |          | 04/24/20 03:15 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <147    | ug/kg  | 147  | 147  | 1  |          | 04/24/20 03:15 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <147    | ug/kg  | 1470 | 147  | 1  |          | 04/24/20 03:15 | 110-57-6   |      |
| Dichlorodifluoromethane        | <369    | ug/kg  | 369  | 369  | 1  |          | 04/24/20 03:15 | 75-71-8    |      |
| 1,1-Dichloroethane             | <73.7   | ug/kg  | 73.7 | 73.7 | 1  |          | 04/24/20 03:15 | 75-34-3    |      |
| 1,2-Dichloroethane             | <73.7   | ug/kg  | 73.7 | 73.7 | 1  |          | 04/24/20 03:15 | 107-06-2   |      |
| 1,1-Dichloroethene             | <73.7   | ug/kg  | 73.7 | 73.7 | 1  |          | 04/24/20 03:15 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <73.7   | ug/kg  | 73.7 | 73.7 | 1  |          | 04/24/20 03:15 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <73.7   | ug/kg  | 73.7 | 73.7 | 1  |          | 04/24/20 03:15 | 156-60-5   |      |
| 1,2-Dichloropropane            | <73.7   | ug/kg  | 73.7 | 73.7 | 1  |          | 04/24/20 03:15 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <147    | ug/kg  | 147  | 147  | 1  |          | 04/24/20 03:15 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <147    | ug/kg  | 147  | 147  | 1  |          | 04/24/20 03:15 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <295    | ug/kg  | 295  | 295  | 1  |          | 04/24/20 03:15 | 60-29-7    |      |
| Diisopropyl ether              | <369    | ug/kg  | 369  | 369  | 1  |          | 04/24/20 03:15 | 108-20-3   | N2   |
| Ethylbenzene                   | <73.7   | ug/kg  | 73.7 | 73.7 | 1  |          | 04/24/20 03:15 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <369    | ug/kg  | 369  | 369  | 1  |          | 04/24/20 03:15 | 637-92-3   | N2   |
| Hexachloroethane               | <442    | ug/kg  | 442  | 442  | 1  |          | 04/24/20 03:15 | 67-72-1    | N2   |
| 2-Hexanone                     | <3690   | ug/kg  | 3690 | 3690 | 1  |          | 04/24/20 03:15 | 591-78-6   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50255203

**Sample: MW-120\_4-5**      **Lab ID: 50255203004**      Collected: 04/21/20 12:20      Received: 04/22/20 09:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Iodomethane                             | <147    | ug/kg | 1470   | 147  | 1  |          | 04/24/20 03:15 | 74-88-4     |      |
| Isopropylbenzene (Cumene)               | <369    | ug/kg | 369    | 369  | 1  |          | 04/24/20 03:15 | 98-82-8     |      |
| p-Isopropyltoluene                      | <36.9   | ug/kg | 73.7   | 36.9 | 1  |          | 04/24/20 03:15 | 99-87-6     |      |
| Methylene Chloride                      | <147    | ug/kg | 147    | 147  | 1  |          | 04/24/20 03:15 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <487    | ug/kg | 487    | 487  | 1  |          | 04/24/20 03:15 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <3690   | ug/kg | 3690   | 3690 | 1  |          | 04/24/20 03:15 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <369    | ug/kg | 369    | 369  | 1  |          | 04/24/20 03:15 | 1634-04-4   |      |
| Naphthalene                             | <487    | ug/kg | 487    | 487  | 1  |          | 04/24/20 03:15 | 91-20-3     |      |
| n-Propylbenzene                         | <147    | ug/kg | 147    | 147  | 1  |          | 04/24/20 03:15 | 103-65-1    |      |
| Styrene                                 | <73.7   | ug/kg | 73.7   | 73.7 | 1  |          | 04/24/20 03:15 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <147    | ug/kg | 147    | 147  | 1  |          | 04/24/20 03:15 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <73.7   | ug/kg | 73.7   | 73.7 | 1  |          | 04/24/20 03:15 | 79-34-5     |      |
| Tetrachloroethene                       | <73.7   | ug/kg | 73.7   | 73.7 | 1  |          | 04/24/20 03:15 | 127-18-4    |      |
| Tetrahydrofuran                         | <1470   | ug/kg | 1470   | 1470 | 1  |          | 04/24/20 03:15 | 109-99-9    | N2   |
| Toluene                                 | <147    | ug/kg | 147    | 147  | 1  |          | 04/24/20 03:15 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <369    | ug/kg | 369    | 369  | 1  |          | 04/24/20 03:15 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <369    | ug/kg | 369    | 369  | 1  |          | 04/24/20 03:15 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <73.7   | ug/kg | 73.7   | 73.7 | 1  |          | 04/24/20 03:15 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <73.7   | ug/kg | 73.7   | 73.7 | 1  |          | 04/24/20 03:15 | 79-00-5     |      |
| Trichloroethene                         | <73.7   | ug/kg | 73.7   | 73.7 | 1  |          | 04/24/20 03:15 | 79-01-6     |      |
| Trichlorofluoromethane                  | <147    | ug/kg | 147    | 147  | 1  |          | 04/24/20 03:15 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <147    | ug/kg | 147    | 147  | 1  |          | 04/24/20 03:15 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <369    | ug/kg | 369    | 369  | 1  |          | 04/24/20 03:15 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <147    | ug/kg | 147    | 147  | 1  |          | 04/24/20 03:15 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <147    | ug/kg | 147    | 147  | 1  |          | 04/24/20 03:15 | 108-67-8    |      |
| Vinyl chloride                          | <59.0   | ug/kg | 59.0   | 59.0 | 1  |          | 04/24/20 03:15 | 75-01-4     |      |
| m&p-Xylene                              | <36.9   | ug/kg | 73.7   | 36.9 | 1  |          | 04/24/20 03:15 | 179601-23-1 |      |
| o-Xylene                                | <36.9   | ug/kg | 73.7   | 36.9 | 1  |          | 04/24/20 03:15 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 121     | %     | 62-137 |      | 1  |          | 04/24/20 03:15 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 115     | %     | 64-139 |      | 1  |          | 04/24/20 03:15 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 117     | %     | 60-142 |      | 1  |          | 04/24/20 03:15 | 460-00-4    |      |
| <b>Percent Moisture</b>                 |         |       |        |      |    |          |                |             |      |
| Analytical Method: SM 2540G             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Percent Moisture                        | 18.7    | %     | 0.10   | 0.10 | 1  |          | 04/24/20 12:28 |             |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale

Pace Project No.: 50255203

**Sample: MW-119\_2-3**      **Lab ID: 50255203005**      Collected: 04/21/20 13:05      Received: 04/22/20 09:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results          | Units | PQL   | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|------------------|-------|-------|-------|----|----------------|----------------|-----------|------|
| <b>6010 MET ICP</b>                                       |                  |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050  |                  |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |                  |       |       |       |    |                |                |           |      |
| Arsenic   | <b>6380</b>      | ug/kg | 2360  | 2360  | 1  | 05/01/20 06:05 | 05/01/20 13:28 | 7440-38-2 |      |
| Barium  | <b>36300</b>     | ug/kg | 1180  | 1180  | 1  | 05/01/20 06:05 | 05/01/20 13:28 | 7440-39-3 |      |
| Chromium  | <b>9240</b>      | ug/kg | 2360  | 2360  | 1  | 05/01/20 06:05 | 05/01/20 13:28 | 7440-47-3 |      |
| Lead  | <b>&lt;11800</b> | ug/kg | 11800 | 11800 | 1  | 05/01/20 06:05 | 05/01/20 13:28 | 7439-92-1 |      |
| <b>6020 MET ICPMS</b>                                     |                  |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B |                  |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |                  |       |       |       |    |                |                |           |      |
| Cadmium   | <b>232</b>       | ug/kg | 232   | 232   | 1  | 04/27/20 08:45 | 04/29/20 10:12 | 7440-43-9 |      |
| Selenium  | <b>2540</b>      | ug/kg | 2320  | 2320  | 10 | 04/27/20 08:45 | 04/29/20 16:22 | 7782-49-2 |      |
| Silver  | <b>&lt;116</b>   | ug/kg | 116   | 116   | 1  | 04/27/20 08:45 | 04/29/20 10:12 | 7440-22-4 |      |
| <b>7471 Mercury</b>                                       |                  |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471  |                  |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |                  |       |       |       |    |                |                |           |      |
| Mercury   | <b>&lt;64.3</b>  | ug/kg | 115   | 64.3  | 1  | 04/30/20 10:22 | 05/01/20 09:46 | 7439-97-6 |      |
| <b>Percent Moisture</b>                                   |                  |       |       |       |    |                |                |           |      |
| Analytical Method: SM 2540G                               |                  |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |                  |       |       |       |    |                |                |           |      |
| Percent Moisture  | <b>16.0</b>      | %     | 0.10  | 0.10  | 1  |                | 04/24/20 12:28 |           |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50255203

**Sample: MW-119\_6-7**      **Lab ID: 50255203006**      Collected: 04/21/20 13:15      Received: 04/22/20 09:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                      |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                           |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| n-Butanol  | <4980   | ug/kg | 4980   | 4980  | 1  |                | 04/24/20 00:19 | 71-36-3   |      |
| Ethanol  | <2830   | ug/kg | 2830   | 2830  | 1  |                | 04/24/20 00:19 | 64-17-5   |      |
| Methanol   | 63900   | ug/kg | 4980   | 4980  | 1  |                | 04/24/20 00:19 | 67-56-1   |      |
| <b>6010 MET ICP</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050        |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Arsenic  | <2230   | ug/kg | 2230   | 2230  | 1  | 05/01/20 06:05 | 05/01/20 13:30 | 7440-38-2 |      |
| Barium   | 6180    | ug/kg | 1120   | 1120  | 1  | 05/01/20 06:05 | 05/01/20 13:30 | 7440-39-3 |      |
| Chromium   | 5080    | ug/kg | 2230   | 2230  | 1  | 05/01/20 06:05 | 05/01/20 13:30 | 7440-47-3 |      |
| Lead   | <11200  | ug/kg | 11200  | 11200 | 1  | 05/01/20 06:05 | 05/01/20 13:30 | 7439-92-1 |      |
| <b>6020 MET ICPMS</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B       |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Cadmium  | <221    | ug/kg | 221    | 221   | 1  | 04/27/20 08:45 | 04/29/20 10:39 | 7440-43-9 |      |
| Selenium   | <1110   | ug/kg | 1110   | 1110  | 5  | 04/27/20 08:45 | 04/29/20 16:26 | 7782-49-2 | D3   |
| Silver   | <111    | ug/kg | 111    | 111   | 1  | 04/27/20 08:45 | 04/29/20 10:39 | 7440-22-4 |      |
| <b>7471 Mercury</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7471      Preparation Method: EPA 7471        |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Mercury  | <58.3   | ug/kg | 104    | 58.3  | 1  | 04/30/20 10:22 | 05/01/20 09:48 | 7439-97-6 |      |
| <b>8270 PAH Soil</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546 |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                              |         |       |        |       |    |                |                |           |      |
| Acenaphthene   | <364    | ug/kg | 364    | 364   | 1  | 04/29/20 11:05 | 04/29/20 18:39 | 83-32-9   |      |
| Acenaphthylene   | <364    | ug/kg | 364    | 364   | 1  | 04/29/20 11:05 | 04/29/20 18:39 | 208-96-8  |      |
| Anthracene   | <364    | ug/kg | 364    | 364   | 1  | 04/29/20 11:05 | 04/29/20 18:39 | 120-12-7  |      |
| Benzo(a)anthracene   | <364    | ug/kg | 364    | 364   | 1  | 04/29/20 11:05 | 04/29/20 18:39 | 56-55-3   |      |
| Benzo(a)pyrene   | <364    | ug/kg | 364    | 364   | 1  | 04/29/20 11:05 | 04/29/20 18:39 | 50-32-8   |      |
| Benzo(b)fluoranthene   | <364    | ug/kg | 364    | 364   | 1  | 04/29/20 11:05 | 04/29/20 18:39 | 205-99-2  |      |
| Benzo(g,h,i)perylene   | <364    | ug/kg | 364    | 364   | 1  | 04/29/20 11:05 | 04/29/20 18:39 | 191-24-2  |      |
| Benzo(k)fluoranthene   | <364    | ug/kg | 364    | 364   | 1  | 04/29/20 11:05 | 04/29/20 18:39 | 207-08-9  |      |
| Chrysene   | <364    | ug/kg | 364    | 364   | 1  | 04/29/20 11:05 | 04/29/20 18:39 | 218-01-9  |      |
| Dibenz(a,h)anthracene  | <364    | ug/kg | 364    | 364   | 1  | 04/29/20 11:05 | 04/29/20 18:39 | 53-70-3   |      |
| Fluoranthene   | <364    | ug/kg | 364    | 364   | 1  | 04/29/20 11:05 | 04/29/20 18:39 | 206-44-0  |      |
| Fluorene   | <364    | ug/kg | 364    | 364   | 1  | 04/29/20 11:05 | 04/29/20 18:39 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | <364    | ug/kg | 364    | 364   | 1  | 04/29/20 11:05 | 04/29/20 18:39 | 193-39-5  |      |
| 2-Methylnaphthalene  | <364    | ug/kg | 364    | 364   | 1  | 04/29/20 11:05 | 04/29/20 18:39 | 91-57-6   |      |
| Naphthalene  | <364    | ug/kg | 364    | 364   | 1  | 04/29/20 11:05 | 04/29/20 18:39 | 91-20-3   |      |
| Phenanthrene   | <364    | ug/kg | 364    | 364   | 1  | 04/29/20 11:05 | 04/29/20 18:39 | 85-01-8   |      |
| Pyrene   | <364    | ug/kg | 364    | 364   | 1  | 04/29/20 11:05 | 04/29/20 18:39 | 129-00-0  |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)   | 78      | %     | 37-111 |       | 1  | 04/29/20 11:05 | 04/29/20 18:39 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 72      | %     | 29-124 |       | 1  | 04/29/20 11:05 | 04/29/20 18:39 | 1718-51-0 |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50255203

Sample: MW-119\_6-7 Lab ID: 50255203006 Collected: 04/21/20 13:15 Received: 04/22/20 09:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Acetone                        | <1310   | ug/kg  | 1310 | 1310 | 1  |          | 04/24/20 03:41 | 67-64-1    |      |
| Acrylonitrile                  | <131    | ug/kg  | 131  | 131  | 1  |          | 04/24/20 03:41 | 107-13-1   |      |
| tert-Amyl methyl ether         | <327    | ug/kg  | 327  | 327  | 1  |          | 04/24/20 03:41 | 994-05-8   | N2   |
| Benzene                        | <65.4   | ug/kg  | 65.4 | 65.4 | 1  |          | 04/24/20 03:41 | 71-43-2    |      |
| Bromobenzene                   | <131    | ug/kg  | 131  | 131  | 1  |          | 04/24/20 03:41 | 108-86-1   |      |
| Bromochloromethane             | <32.7   | ug/kg  | 65.4 | 32.7 | 1  |          | 04/24/20 03:41 | 74-97-5    |      |
| Bromodichloromethane           | <131    | ug/kg  | 131  | 131  | 1  |          | 04/24/20 03:41 | 75-27-4    |      |
| Bromoform                      | <131    | ug/kg  | 131  | 131  | 1  |          | 04/24/20 03:41 | 75-25-2    |      |
| Bromomethane                   | <262    | ug/kg  | 262  | 262  | 1  |          | 04/24/20 03:41 | 74-83-9    |      |
| 2-Butanone (MEK)               | <981    | ug/kg  | 981  | 981  | 1  |          | 04/24/20 03:41 | 78-93-3    |      |
| tert-Butyl Alcohol             | <3270   | ug/kg  | 3270 | 3270 | 1  |          | 04/24/20 03:41 | 75-65-0    |      |
| n-Butylbenzene                 | <65.4   | ug/kg  | 65.4 | 65.4 | 1  |          | 04/24/20 03:41 | 104-51-8   |      |
| sec-Butylbenzene               | <65.4   | ug/kg  | 65.4 | 65.4 | 1  |          | 04/24/20 03:41 | 135-98-8   |      |
| tert-Butylbenzene              | <65.4   | ug/kg  | 65.4 | 65.4 | 1  |          | 04/24/20 03:41 | 98-06-6    |      |
| Carbon disulfide               | <327    | ug/kg  | 327  | 327  | 1  |          | 04/24/20 03:41 | 75-15-0    |      |
| Carbon tetrachloride           | <65.4   | ug/kg  | 65.4 | 65.4 | 1  |          | 04/24/20 03:41 | 56-23-5    |      |
| Chlorobenzene                  | <65.4   | ug/kg  | 65.4 | 65.4 | 1  |          | 04/24/20 03:41 | 108-90-7   |      |
| Chloroethane                   | <327    | ug/kg  | 327  | 327  | 1  |          | 04/24/20 03:41 | 75-00-3    |      |
| Chloroform                     | <65.4   | ug/kg  | 65.4 | 65.4 | 1  |          | 04/24/20 03:41 | 67-66-3    |      |
| Chloromethane                  | <327    | ug/kg  | 327  | 327  | 1  |          | 04/24/20 03:41 | 74-87-3    |      |
| Cyclohexane                    | <654    | ug/kg  | 654  | 654  | 1  |          | 04/24/20 03:41 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <65.4   | ug/kg  | 65.4 | 65.4 | 1  |          | 04/24/20 03:41 | 96-12-8    |      |
| Dibromochloromethane           | <131    | ug/kg  | 131  | 131  | 1  |          | 04/24/20 03:41 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <65.4   | ug/kg  | 65.4 | 65.4 | 1  |          | 04/24/20 03:41 | 106-93-4   |      |
| Dibromomethane                 | <327    | ug/kg  | 327  | 327  | 1  |          | 04/24/20 03:41 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <131    | ug/kg  | 131  | 131  | 1  |          | 04/24/20 03:41 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <131    | ug/kg  | 131  | 131  | 1  |          | 04/24/20 03:41 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <131    | ug/kg  | 131  | 131  | 1  |          | 04/24/20 03:41 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <131    | ug/kg  | 1310 | 131  | 1  |          | 04/24/20 03:41 | 110-57-6   |      |
| Dichlorodifluoromethane        | <327    | ug/kg  | 327  | 327  | 1  |          | 04/24/20 03:41 | 75-71-8    |      |
| 1,1-Dichloroethane             | <65.4   | ug/kg  | 65.4 | 65.4 | 1  |          | 04/24/20 03:41 | 75-34-3    |      |
| 1,2-Dichloroethane             | <65.4   | ug/kg  | 65.4 | 65.4 | 1  |          | 04/24/20 03:41 | 107-06-2   |      |
| 1,1-Dichloroethene             | <65.4   | ug/kg  | 65.4 | 65.4 | 1  |          | 04/24/20 03:41 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <65.4   | ug/kg  | 65.4 | 65.4 | 1  |          | 04/24/20 03:41 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <65.4   | ug/kg  | 65.4 | 65.4 | 1  |          | 04/24/20 03:41 | 156-60-5   |      |
| 1,2-Dichloropropane            | <65.4   | ug/kg  | 65.4 | 65.4 | 1  |          | 04/24/20 03:41 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <131    | ug/kg  | 131  | 131  | 1  |          | 04/24/20 03:41 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <131    | ug/kg  | 131  | 131  | 1  |          | 04/24/20 03:41 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <262    | ug/kg  | 262  | 262  | 1  |          | 04/24/20 03:41 | 60-29-7    |      |
| Diisopropyl ether              | <327    | ug/kg  | 327  | 327  | 1  |          | 04/24/20 03:41 | 108-20-3   | N2   |
| Ethylbenzene                   | <65.4   | ug/kg  | 65.4 | 65.4 | 1  |          | 04/24/20 03:41 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <327    | ug/kg  | 327  | 327  | 1  |          | 04/24/20 03:41 | 637-92-3   | N2   |
| Hexachloroethane               | <393    | ug/kg  | 393  | 393  | 1  |          | 04/24/20 03:41 | 67-72-1    | N2   |
| 2-Hexanone                     | <3270   | ug/kg  | 3270 | 3270 | 1  |          | 04/24/20 03:41 | 591-78-6   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50255203

**Sample: MW-119\_6-7**      **Lab ID: 50255203006**      Collected: 04/21/20 13:15      Received: 04/22/20 09:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Iodomethane                             | <131    | ug/kg | 1310   | 131  | 1  |          | 04/24/20 03:41 | 74-88-4     |      |
| Isopropylbenzene (Cumene)               | <327    | ug/kg | 327    | 327  | 1  |          | 04/24/20 03:41 | 98-82-8     |      |
| p-Isopropyltoluene                      | <32.7   | ug/kg | 65.4   | 32.7 | 1  |          | 04/24/20 03:41 | 99-87-6     |      |
| Methylene Chloride                      | <131    | ug/kg | 131    | 131  | 1  |          | 04/24/20 03:41 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <432    | ug/kg | 432    | 432  | 1  |          | 04/24/20 03:41 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <3270   | ug/kg | 3270   | 3270 | 1  |          | 04/24/20 03:41 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <327    | ug/kg | 327    | 327  | 1  |          | 04/24/20 03:41 | 1634-04-4   |      |
| Naphthalene                             | <432    | ug/kg | 432    | 432  | 1  |          | 04/24/20 03:41 | 91-20-3     |      |
| n-Propylbenzene                         | <131    | ug/kg | 131    | 131  | 1  |          | 04/24/20 03:41 | 103-65-1    |      |
| Styrene                                 | <65.4   | ug/kg | 65.4   | 65.4 | 1  |          | 04/24/20 03:41 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <131    | ug/kg | 131    | 131  | 1  |          | 04/24/20 03:41 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <65.4   | ug/kg | 65.4   | 65.4 | 1  |          | 04/24/20 03:41 | 79-34-5     |      |
| Tetrachloroethene                       | <65.4   | ug/kg | 65.4   | 65.4 | 1  |          | 04/24/20 03:41 | 127-18-4    |      |
| Tetrahydrofuran                         | <1310   | ug/kg | 1310   | 1310 | 1  |          | 04/24/20 03:41 | 109-99-9    | N2   |
| Toluene                                 | <131    | ug/kg | 131    | 131  | 1  |          | 04/24/20 03:41 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <327    | ug/kg | 327    | 327  | 1  |          | 04/24/20 03:41 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <327    | ug/kg | 327    | 327  | 1  |          | 04/24/20 03:41 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <65.4   | ug/kg | 65.4   | 65.4 | 1  |          | 04/24/20 03:41 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <65.4   | ug/kg | 65.4   | 65.4 | 1  |          | 04/24/20 03:41 | 79-00-5     |      |
| Trichloroethene                         | <65.4   | ug/kg | 65.4   | 65.4 | 1  |          | 04/24/20 03:41 | 79-01-6     |      |
| Trichlorofluoromethane                  | <131    | ug/kg | 131    | 131  | 1  |          | 04/24/20 03:41 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <131    | ug/kg | 131    | 131  | 1  |          | 04/24/20 03:41 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <327    | ug/kg | 327    | 327  | 1  |          | 04/24/20 03:41 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <131    | ug/kg | 131    | 131  | 1  |          | 04/24/20 03:41 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <131    | ug/kg | 131    | 131  | 1  |          | 04/24/20 03:41 | 108-67-8    |      |
| Vinyl chloride                          | <52.3   | ug/kg | 52.3   | 52.3 | 1  |          | 04/24/20 03:41 | 75-01-4     |      |
| m&p-Xylene                              | <32.7   | ug/kg | 65.4   | 32.7 | 1  |          | 04/24/20 03:41 | 179601-23-1 |      |
| o-Xylene                                | <32.7   | ug/kg | 65.4   | 32.7 | 1  |          | 04/24/20 03:41 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 115     | %     | 62-137 |      | 1  |          | 04/24/20 03:41 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 110     | %     | 64-139 |      | 1  |          | 04/24/20 03:41 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 108     | %     | 60-142 |      | 1  |          | 04/24/20 03:41 | 460-00-4    |      |
| <b>Percent Moisture</b>                 |         |       |        |      |    |          |                |             |      |
| Analytical Method: SM 2540G             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Percent Moisture                        | 11.7    | %     | 0.10   | 0.10 | 1  |          | 04/24/20 12:28 |             |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale

Pace Project No.: 50255203

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**Sample: MW-115 Comp**      **Lab ID: 50255203007**      Collected: 04/21/20 17:30      Received: 04/22/20 09:50      Matrix: Solid

*Results reported on a "wet-weight" basis*

| Parameters  | Results          | Units | Report<br>Limit | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|------------------|-------|-----------------|-------|----|----------------|----------------|-----------|------|
| <b>6010 MET ICP, TCLP</b>   |                  |       |                 |       |    |                |                |           |      |
| Analytical Method: EPA 6010    Preparation Method: EPA 3010                       |                  |       |                 |       |    |                |                |           |      |
| Leachate Method/Date: EPA 1311; 04/23/20 17:01    Initial pH: 8.18; Final pH: 6.1 |                  |       |                 |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis   |                  |       |                 |       |    |                |                |           |      |
| Barium  | <b>&lt;5000</b>  | ug/L  | 5000            | 250   | 1  | 04/26/20 14:43 | 04/27/20 13:41 | 7440-39-3 |      |
| Cadmium   | <b>&lt;0.050</b> | mg/L  | 0.050           | 0.025 | 1  | 04/26/20 14:43 | 04/27/20 13:41 | 7440-43-9 |      |
| Lead  | <b>&lt;0.10</b>  | mg/L  | 0.10            | 0.050 | 1  | 04/26/20 14:43 | 04/27/20 13:41 | 7439-92-1 |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale

Pace Project No.: 50255203

QC Batch: 558696 Analysis Method: EPA 8015 Alcohol-Glycol  
 QC Batch Method: EPA 8015 Alcohol-Glycol Analysis Description: EPA 8015 Modified  
 Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50255203002, 50255203004, 50255203006

METHOD BLANK: 2576547 Matrix: Solid

Associated Lab Samples: 50255203002, 50255203004, 50255203006

| Parameter | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Ethanol   | ug/kg | <2500        | 2500            | 2500 | 04/23/20 22:46 |            |
| Methanol  | ug/kg | <4400        | 4400            | 4400 | 04/23/20 22:46 |            |
| n-Butanol | ug/kg | <4400        | 4400            | 4400 | 04/23/20 22:46 |            |

LABORATORY CONTROL SAMPLE: 2576548

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Ethanol   | ug/kg | 50000       | 48800      | 98        | 79-113       |            |
| Methanol  | ug/kg | 50000       | 47100      | 94        | 75-111       |            |
| n-Butanol | ug/kg | 50000       | 46100      | 92        | 80-115       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2576549 2576550

| Parameter | Units | 50255295017 |       | MS          |             | MSD    |        | % Rec | % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-------|-------------|-------------|--------|--------|-------|-------|--------------|-----|---------|------|
|           |       | Result      | Conc. | Spike Conc. | Spike Conc. | Result | Result |       |       |              |     |         |      |
| Ethanol   | ug/kg | ND          | 63800 | 63800       | 63800       | 57600  | 59500  | 90    | 93    | 46-120       | 3   | 20      |      |
| Methanol  | ug/kg | ND          | 63800 | 63800       | 63800       | 54200  | 54800  | 85    | 86    | 42-119       | 1   | 20      |      |
| n-Butanol | ug/kg | ND          | 63800 | 63800       | 63800       | 52900  | 53600  | 83    | 84    | 10-142       | 1   | 20      |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale

Pace Project No.: 50255203

QC Batch: 558866

Analysis Method: EPA 7471

QC Batch Method: EPA 7471

Analysis Description: 7471 Mercury

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50255203001, 50255203002, 50255203003, 50255203004, 50255203005, 50255203006

METHOD BLANK: 2577548

Matrix: Solid

Associated Lab Samples: 50255203001, 50255203002, 50255203003, 50255203004, 50255203005, 50255203006

| Parameter | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Mercury   | ug/kg | <56.0        | 100             | 56.0 | 05/01/20 08:40 |            |

LABORATORY CONTROL SAMPLE: 2577549

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury   | ug/kg | 500         | 485        | 97        | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2577550 2577551

| Parameter | Units | 50254690008    |                 | 2577551   |            | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
|           |       | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result |          |           |              |     |         |      |
| Mercury   | ug/kg | 0.19J          | 576             | 612       | 755        | 98       | 103       | 75-125       | 9   | 20      |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50255203

QC Batch: 559371 Analysis Method: EPA 6010  
QC Batch Method: EPA 3050 Analysis Description: 6010 MET  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50255203001, 50255203002, 50255203003, 50255203004, 50255203005, 50255203006

METHOD BLANK: 2579518 Matrix: Solid  
Associated Lab Samples: 50255203001, 50255203002, 50255203003, 50255203004, 50255203005, 50255203006

| Parameter | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Arsenic   | ug/kg | <2000        | 2000            | 2000  | 05/01/20 11:30 |            |
| Barium    | ug/kg | <1000        | 1000            | 1000  | 05/01/20 11:30 |            |
| Chromium  | ug/kg | <2000        | 2000            | 2000  | 05/01/20 11:30 |            |
| Lead      | ug/kg | <10000       | 10000           | 10000 | 05/01/20 11:30 |            |

LABORATORY CONTROL SAMPLE: 2579519

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic   | ug/kg | 50000       | 53200      | 106       | 80-120       |            |
| Barium    | ug/kg | 50000       | 51800      | 104       | 80-120       |            |
| Chromium  | ug/kg | 50000       | 52500      | 105       | 80-120       |            |
| Lead      | ug/kg | 50000       | 50000      | 100       | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2579520 2579521

| Parameter | Units | 50255425003 Result | MS          |           | MSD         |            | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-----------|-------------|------------|----------|-----------|--------------|-----|---------|------|
|           |       |                    | Spike Conc. | MS Result | Spike Conc. | MSD Result |          |           |              |     |         |      |
| Arsenic   | ug/kg | 8.6 mg/kg          | 58400       | 59500     | 68900       | 68000      | 103      | 100       | 75-125       | 1   | 20      |      |
| Barium    | ug/kg | 86.3 mg/kg         | 58400       | 59500     | 155000      | 151000     | 118      | 108       | 75-125       | 3   | 20      |      |
| Chromium  | ug/kg | 42.4 mg/kg         | 58400       | 59500     | 92900       | 106000     | 87       | 106       | 75-125       | 13  | 20      |      |
| Lead      | ug/kg | 59.2 mg/kg         | 58400       | 59500     | 115000      | 120000     | 95       | 102       | 75-125       | 5   | 20      |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50255203

QC Batch: 558885      Analysis Method: EPA 6010  
QC Batch Method: EPA 3010      Analysis Description: 6010 MET TCLP  
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50255203007

METHOD BLANK: 2577666      Matrix: Water  
Associated Lab Samples: 50255203007

| Parameter | Units | Blank Result | Reporting Limit | MDL    | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|--------|----------------|------------|
| Barium    | ug/L  | <500         | 500             | 25.0   | 04/27/20 12:59 |            |
| Cadmium   | mg/L  | <0.0050      | 0.0050          | 0.0025 | 04/27/20 12:59 |            |
| Lead      | mg/L  | <0.010       | 0.010           | 0.0050 | 04/27/20 12:59 |            |

LABORATORY CONTROL SAMPLE: 2577667

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Barium    | ug/L  | 1000        | 982        | 98        | 80-120       |            |
| Cadmium   | mg/L  | 1           | 1.0        | 100       | 80-120       |            |
| Lead      | mg/L  | 1           | 0.98       | 98        | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2577668      2577669

| Parameter | Units | 50254582001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Barium    | ug/L  | <0.25 mg/L         | 10000          | 10000           | 9920      | 9770       | 98       | 96        | 50-150       | 2   | 20      |      |
| Cadmium   | mg/L  | <0.025             | 10             | 10              | 10.1      | 9.9        | 101      | 99        | 50-150       | 2   | 20      |      |
| Lead      | mg/L  | <0.050             | 10             | 10              | 9.7       | 9.5        | 97       | 95        | 50-150       | 2   | 20      |      |

MATRIX SPIKE SAMPLE: 2577670

| Parameter | Units | 50254729001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Barium    | ug/L  | ND                 | 10000       | 9720      | 97       | 50-150       |            |
| Cadmium   | mg/L  | ND                 | 10          | 10.1      | 101      | 50-150       |            |
| Lead      | mg/L  | ND                 | 10          | 9.3       | 92       | 50-150       |            |

MATRIX SPIKE SAMPLE: 2577671

| Parameter | Units | 50254784001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Barium    | ug/L  | <0.25 mg/L         | 10000       | 9790      | 96       | 50-150       |            |
| Cadmium   | mg/L  | <0.025             | 10          | 9.9       | 99       | 50-150       |            |
| Lead      | mg/L  | <0.050             | 10          | 9.6       | 96       | 50-150       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50255203

| MATRIX SPIKE SAMPLE: 2577672 |       | 50255242001 | Spike | MS     | MS    | % Rec  |            |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter                    | Units | Result      | Conc. | Result | % Rec | Limits | Qualifiers |
| Barium                       | ug/L  | ND          | 10000 | 9980   | 96    | 50-150 |            |
| Cadmium                      | mg/L  | ND          | 10    | 10.0   | 100   | 50-150 |            |
| Lead                         | mg/L  | ND          | 10    | 9.3    | 93    | 50-150 |            |

| MATRIX SPIKE SAMPLE: 2577673 |       | 50255184001 | Spike | MS     | MS    | % Rec  |            |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter                    | Units | Result      | Conc. | Result | % Rec | Limits | Qualifiers |
| Barium                       | ug/L  | ND          | 10000 | 11200  | 97    | 50-150 |            |
| Cadmium                      | mg/L  | ND          | 10    | 10.1   | 101   | 50-150 |            |
| Lead                         | mg/L  | 1.2         | 10    | 10.8   | 96    | 50-150 |            |

| MATRIX SPIKE SAMPLE: 2577674 |       | 50255201001 | Spike | MS     | MS    | % Rec  |            |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter                    | Units | Result      | Conc. | Result | % Rec | Limits | Qualifiers |
| Barium                       | ug/L  | ND          | 10000 | 10100  | 96    | 50-150 |            |
| Cadmium                      | mg/L  | ND          | 10    | 10     | 100   | 50-150 |            |
| Lead                         | mg/L  | ND          | 10    | 9.5    | 95    | 50-150 |            |

| MATRIX SPIKE SAMPLE: 2577675 |       | 50255203007 | Spike | MS     | MS    | % Rec  |            |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter                    | Units | Result      | Conc. | Result | % Rec | Limits | Qualifiers |
| Barium                       | ug/L  | <5000       | 10000 | 9690   | 96    | 50-150 |            |
| Cadmium                      | mg/L  | <0.050      | 10    | 9.9    | 99    | 50-150 |            |
| Lead                         | mg/L  | <0.10       | 10    | 9.4    | 94    | 50-150 |            |

| MATRIX SPIKE SAMPLE: 2577676 |       | 50255065001 | Spike | MS     | MS    | % Rec  |            |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter                    | Units | Result      | Conc. | Result | % Rec | Limits | Qualifiers |
| Barium                       | ug/L  | 0.29J mg/L  | 10000 | 9990   | 97    | 50-150 |            |
| Cadmium                      | mg/L  | <0.025      | 10    | 10     | 100   | 50-150 |            |
| Lead                         | mg/L  | 0.42        | 10    | 9.8    | 94    | 50-150 |            |

| MATRIX SPIKE SAMPLE: 2577677 |       | 50255070001 | Spike | MS     | MS    | % Rec  |            |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter                    | Units | Result      | Conc. | Result | % Rec | Limits | Qualifiers |
| Barium                       | ug/L  | <0.25 mg/L  | 10000 | 9930   | 98    | 50-150 |            |
| Cadmium                      | mg/L  | <0.025      | 10    | 10.1   | 101   | 50-150 |            |
| Lead                         | mg/L  | <0.050      | 10    | 9.7    | 97    | 50-150 |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale

Pace Project No.: 50255203

| MATRIX SPIKE SAMPLE: 2577678 |       | 50255126001 | Spike | MS     | MS    | % Rec  |            |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter                    | Units | Result      | Conc. | Result | % Rec | Limits | Qualifiers |
| Barium                       | ug/L  | ND          | 10000 | 10200  | 98    | 50-150 |            |
| Cadmium                      | mg/L  | ND          | 10    | 10.2   | 102   | 50-150 |            |
| Lead                         | mg/L  | ND          | 10    | 9.6    | 96    | 50-150 |            |

| MATRIX SPIKE SAMPLE: 2577679 |       | 50255302001 | Spike | MS     | MS    | % Rec  |            |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter                    | Units | Result      | Conc. | Result | % Rec | Limits | Qualifiers |
| Barium                       | ug/L  | ND          | 10000 | 10000  | 98    | 50-150 |            |
| Cadmium                      | mg/L  | ND          | 10    | 10.1   | 101   | 50-150 |            |
| Lead                         | mg/L  | ND          | 10    | 9.6    | 96    | 50-150 |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50255203

QC Batch: 558799 Analysis Method: EPA 6020  
QC Batch Method: EPA 3050B Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50255203001, 50255203002, 50255203003, 50255203004, 50255203005, 50255203006

METHOD BLANK: 2576938 Matrix: Solid  
Associated Lab Samples: 50255203001, 50255203002, 50255203003, 50255203004, 50255203005, 50255203006

| Parameter | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Cadmium   | ug/kg | <191         | 191             | 191  | 04/29/20 08:13 |            |
| Selenium  | ug/kg | <191         | 191             | 191  | 04/29/20 08:13 |            |
| Silver    | ug/kg | <95.7        | 95.7            | 95.7 | 04/29/20 08:13 |            |

LABORATORY CONTROL SAMPLE: 2576939

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Cadmium   | ug/kg | 3940        | 3870       | 98        | 80-120       |            |
| Selenium  | ug/kg | 3940        | 3670       | 93        | 80-120       |            |
| Silver    | ug/kg | 3940        | 4010       | 102       | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2576940 2576941

| Parameter | Units | 50255203001 |                | 50255203001     |           | 50255203001 |          | 50255203001 |        | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|----------------|-----------------|-----------|-------------|----------|-------------|--------|--------------|-----|---------|------|
|           |       | Result      | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result  | MS % Rec | MSD % Rec   |        |              |     |         |      |
| Cadmium   | ug/kg | <213        | 4150           | 4200            | 3900      | 3960        | 94       | 94          | 75-125 | 1            | 20  |         |      |
| Selenium  | ug/kg | <1070       | 4150           | 4200            | 4090      | 4350        | 90       | 95          | 75-125 | 6            | 20  |         |      |
| Silver    | ug/kg | <107        | 4150           | 4200            | 3980      | 4010        | 96       | 95          | 75-125 | 1            | 20  |         |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50255203

QC Batch: 558637 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035 Volatile Organics  
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50255203002, 50255203004, 50255203006

METHOD BLANK: 2576137 Matrix: Solid

Associated Lab Samples: 50255203002, 50255203004, 50255203006

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/kg | <100         | 100             | 100  | 04/23/20 23:42 |            |
| 1,1,1-Trichloroethane       | ug/kg | <50.0        | 50.0            | 50.0 | 04/23/20 23:42 |            |
| 1,1,2,2-Tetrachloroethane   | ug/kg | <50.0        | 50.0            | 50.0 | 04/23/20 23:42 |            |
| 1,1,2-Trichloroethane       | ug/kg | <50.0        | 50.0            | 50.0 | 04/23/20 23:42 |            |
| 1,1-Dichloroethane          | ug/kg | <50.0        | 50.0            | 50.0 | 04/23/20 23:42 |            |
| 1,1-Dichloroethene          | ug/kg | <50.0        | 50.0            | 50.0 | 04/23/20 23:42 |            |
| 1,2,3-Trichlorobenzene      | ug/kg | <250         | 250             | 250  | 04/23/20 23:42 |            |
| 1,2,3-Trichloropropane      | ug/kg | <100         | 100             | 100  | 04/23/20 23:42 |            |
| 1,2,3-Trimethylbenzene      | ug/kg | <250         | 250             | 250  | 04/23/20 23:42 | N2         |
| 1,2,4-Trichlorobenzene      | ug/kg | <250         | 250             | 250  | 04/23/20 23:42 |            |
| 1,2,4-Trimethylbenzene      | ug/kg | <100         | 100             | 100  | 04/23/20 23:42 |            |
| 1,2-Dibromo-3-chloropropane | ug/kg | <50.0        | 50.0            | 50.0 | 04/23/20 23:42 |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | <50.0        | 50.0            | 50.0 | 04/23/20 23:42 |            |
| 1,2-Dichlorobenzene         | ug/kg | <100         | 100             | 100  | 04/23/20 23:42 |            |
| 1,2-Dichloroethane          | ug/kg | <50.0        | 50.0            | 50.0 | 04/23/20 23:42 |            |
| 1,2-Dichloropropane         | ug/kg | <50.0        | 50.0            | 50.0 | 04/23/20 23:42 |            |
| 1,3,5-Trimethylbenzene      | ug/kg | <100         | 100             | 100  | 04/23/20 23:42 |            |
| 1,3-Dichlorobenzene         | ug/kg | <100         | 100             | 100  | 04/23/20 23:42 |            |
| 1,4-Dichlorobenzene         | ug/kg | <100         | 100             | 100  | 04/23/20 23:42 |            |
| 2-Butanone (MEK)            | ug/kg | <750         | 750             | 750  | 04/23/20 23:42 |            |
| 2-Hexanone                  | ug/kg | <2500        | 2500            | 2500 | 04/23/20 23:42 |            |
| 2-Methylnaphthalene         | ug/kg | <330         | 330             | 330  | 04/23/20 23:42 | N2         |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | <2500        | 2500            | 2500 | 04/23/20 23:42 |            |
| Acetone                     | ug/kg | <1000        | 1000            | 1000 | 04/23/20 23:42 |            |
| Acrylonitrile               | ug/kg | <100         | 100             | 100  | 04/23/20 23:42 |            |
| Benzene                     | ug/kg | <50.0        | 50.0            | 50.0 | 04/23/20 23:42 |            |
| Bromobenzene                | ug/kg | <100         | 100             | 100  | 04/23/20 23:42 |            |
| Bromochloromethane          | ug/kg | <25.0        | 50.0            | 25.0 | 04/23/20 23:42 |            |
| Bromodichloromethane        | ug/kg | <100         | 100             | 100  | 04/23/20 23:42 |            |
| Bromoform                   | ug/kg | <100         | 100             | 100  | 04/23/20 23:42 |            |
| Bromomethane                | ug/kg | <200         | 200             | 200  | 04/23/20 23:42 |            |
| Carbon disulfide            | ug/kg | <250         | 250             | 250  | 04/23/20 23:42 |            |
| Carbon tetrachloride        | ug/kg | <50.0        | 50.0            | 50.0 | 04/23/20 23:42 |            |
| Chlorobenzene               | ug/kg | <50.0        | 50.0            | 50.0 | 04/23/20 23:42 |            |
| Chloroethane                | ug/kg | <250         | 250             | 250  | 04/23/20 23:42 |            |
| Chloroform                  | ug/kg | <50.0        | 50.0            | 50.0 | 04/23/20 23:42 |            |
| Chloromethane               | ug/kg | <250         | 250             | 250  | 04/23/20 23:42 |            |
| cis-1,2-Dichloroethene      | ug/kg | <50.0        | 50.0            | 50.0 | 04/23/20 23:42 |            |
| cis-1,3-Dichloropropene     | ug/kg | <100         | 100             | 100  | 04/23/20 23:42 |            |
| Cyclohexane                 | ug/kg | <500         | 500             | 500  | 04/23/20 23:42 | N2         |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale

Pace Project No.: 50255203

METHOD BLANK: 2576137

Matrix: Solid

Associated Lab Samples: 50255203002, 50255203004, 50255203006

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| Dibromochloromethane        | ug/kg | <100         | 100             | 100  | 04/23/20 23:42 |            |
| Dibromomethane              | ug/kg | <250         | 250             | 250  | 04/23/20 23:42 |            |
| Dichlorodifluoromethane     | ug/kg | <250         | 250             | 250  | 04/23/20 23:42 |            |
| Diethyl ether (Ethyl ether) | ug/kg | <200         | 200             | 200  | 04/23/20 23:42 |            |
| Diisopropyl ether           | ug/kg | <250         | 250             | 250  | 04/23/20 23:42 | N2         |
| Ethyl-tert-butyl ether      | ug/kg | <250         | 250             | 250  | 04/23/20 23:42 | N2         |
| Ethylbenzene                | ug/kg | <50.0        | 50.0            | 50.0 | 04/23/20 23:42 |            |
| Hexachloroethane            | ug/kg | <300         | 300             | 300  | 04/23/20 23:42 | N2         |
| Iodomethane                 | ug/kg | <100         | 1000            | 100  | 04/23/20 23:42 |            |
| Isopropylbenzene (Cumene)   | ug/kg | <250         | 250             | 250  | 04/23/20 23:42 |            |
| m&p-Xylene                  | ug/kg | <25.0        | 50.0            | 25.0 | 04/23/20 23:42 |            |
| Methyl-tert-butyl ether     | ug/kg | <250         | 250             | 250  | 04/23/20 23:42 |            |
| Methylene Chloride          | ug/kg | <100         | 100             | 100  | 04/23/20 23:42 |            |
| n-Butylbenzene              | ug/kg | <50.0        | 50.0            | 50.0 | 04/23/20 23:42 |            |
| n-Propylbenzene             | ug/kg | <100         | 100             | 100  | 04/23/20 23:42 |            |
| Naphthalene                 | ug/kg | <330         | 330             | 330  | 04/23/20 23:42 |            |
| o-Xylene                    | ug/kg | <25.0        | 50.0            | 25.0 | 04/23/20 23:42 |            |
| p-Isopropyltoluene          | ug/kg | <25.0        | 50.0            | 25.0 | 04/23/20 23:42 |            |
| sec-Butylbenzene            | ug/kg | <50.0        | 50.0            | 50.0 | 04/23/20 23:42 |            |
| Styrene                     | ug/kg | <50.0        | 50.0            | 50.0 | 04/23/20 23:42 |            |
| tert-Amylmethyl ether       | ug/kg | <250         | 250             | 250  | 04/23/20 23:42 | N2         |
| tert-Butyl Alcohol          | ug/kg | <2500        | 2500            | 2500 | 04/23/20 23:42 |            |
| tert-Butylbenzene           | ug/kg | <50.0        | 50.0            | 50.0 | 04/23/20 23:42 |            |
| Tetrachloroethane           | ug/kg | <50.0        | 50.0            | 50.0 | 04/23/20 23:42 |            |
| Tetrahydrofuran             | ug/kg | <1000        | 1000            | 1000 | 04/23/20 23:42 | N2         |
| Toluene                     | ug/kg | <100         | 100             | 100  | 04/23/20 23:42 |            |
| trans-1,2-Dichloroethene    | ug/kg | <50.0        | 50.0            | 50.0 | 04/23/20 23:42 |            |
| trans-1,3-Dichloropropene   | ug/kg | <100         | 100             | 100  | 04/23/20 23:42 |            |
| trans-1,4-Dichloro-2-butene | ug/kg | <100         | 1000            | 100  | 04/23/20 23:42 |            |
| Trichloroethene             | ug/kg | <50.0        | 50.0            | 50.0 | 04/23/20 23:42 |            |
| Trichlorofluoromethane      | ug/kg | <100         | 100             | 100  | 04/23/20 23:42 |            |
| Vinyl chloride              | ug/kg | <40.0        | 40.0            | 40.0 | 04/23/20 23:42 |            |
| 4-Bromofluorobenzene (S)    | %     | 92           | 60-142          |      | 04/23/20 23:42 |            |
| Dibromofluoromethane (S)    | %     | 105          | 62-137          |      | 04/23/20 23:42 |            |
| Toluene-d8 (S)              | %     | 101          | 64-139          |      | 04/23/20 23:42 |            |

LABORATORY CONTROL SAMPLE: 2576138

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/kg | 100         | <100       | 97        | 82-119       |            |
| 1,1,1-Trichloroethane     | ug/kg | 100         | 111        | 111       | 82-125       |            |
| 1,1,2,2-Tetrachloroethane | ug/kg | 100         | 88.3       | 88        | 54-137       |            |
| 1,1,2-Trichloroethane     | ug/kg | 100         | 95.0       | 95        | 77-122       |            |
| 1,1-Dichloroethane        | ug/kg | 100         | 106        | 106       | 68-126       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale

Pace Project No.: 50255203

LABORATORY CONTROL SAMPLE: 2576138

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1-Dichloroethene          | ug/kg | 100         | 98.5       | 98        | 77-126       |            |
| 1,2,3-Trichlorobenzene      | ug/kg | 100         | <250       | 100       | 72-126       |            |
| 1,2,3-Trichloropropane      | ug/kg | 100         | <100       | 91        | 66-125       |            |
| 1,2,4-Trichlorobenzene      | ug/kg | 100         | <250       | 104       | 79-124       |            |
| 1,2,4-Trimethylbenzene      | ug/kg | 100         | 102        | 102       | 78-125       |            |
| 1,2-Dibromo-3-chloropropane | ug/kg | 100         | 110        | 110       | 64-133       |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | 100         | 95.0       | 95        | 78-124       |            |
| 1,2-Dichlorobenzene         | ug/kg | 100         | <100       | 90        | 79-117       |            |
| 1,2-Dichloroethane          | ug/kg | 100         | 90.5       | 91        | 74-116       |            |
| 1,2-Dichloropropane         | ug/kg | 100         | 94.1       | 94        | 70-142       |            |
| 1,3,5-Trimethylbenzene      | ug/kg | 100         | 102        | 102       | 76-122       |            |
| 1,3-Dichlorobenzene         | ug/kg | 100         | <100       | 91        | 80-118       |            |
| 1,4-Dichlorobenzene         | ug/kg | 100         | <100       | 90        | 76-115       |            |
| 2-Butanone (MEK)            | ug/kg | 500         | <750       | 95        | 65-126       |            |
| 2-Hexanone                  | ug/kg | 500         | <2500      | 100       | 54-141       |            |
| 2-Methylnaphthalene         | ug/kg | 100         | <330       | 101       | 47-148       | N2         |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | 500         | <2500      | 98        | 60-133       |            |
| Acetone                     | ug/kg | 500         | <1000      | 106       | 49-139       |            |
| Acrylonitrile               | ug/kg | 400         | 362        | 91        | 66-133       |            |
| Benzene                     | ug/kg | 100         | 96.3       | 96        | 71-126       |            |
| Bromobenzene                | ug/kg | 100         | <100       | 91        | 77-119       |            |
| Bromochloromethane          | ug/kg | 100         | 87.5       | 88        | 60-117       |            |
| Bromodichloromethane        | ug/kg | 100         | <100       | 94        | 79-122       |            |
| Bromoform                   | ug/kg | 100         | <100       | 98        | 64-121       |            |
| Bromomethane                | ug/kg | 100         | <200       | 88        | 10-200       |            |
| Carbon disulfide            | ug/kg | 100         | <250       | 100       | 54-129       |            |
| Carbon tetrachloride        | ug/kg | 100         | 108        | 108       | 78-120       |            |
| Chlorobenzene               | ug/kg | 100         | 93.2       | 93        | 81-117       |            |
| Chloroethane                | ug/kg | 100         | <250       | 114       | 54-134       |            |
| Chloroform                  | ug/kg | 100         | 98.9       | 99        | 80-119       |            |
| Chloromethane               | ug/kg | 100         | <250       | 92        | 31-118       |            |
| cis-1,2-Dichloroethene      | ug/kg | 100         | 101        | 101       | 77-125       |            |
| cis-1,3-Dichloropropene     | ug/kg | 100         | 102        | 102       | 74-133       |            |
| Cyclohexane                 | ug/kg | 100         | <500       | 112       | 49-128       | N2         |
| Dibromochloromethane        | ug/kg | 100         | <100       | 98        | 78-124       |            |
| Dibromomethane              | ug/kg | 100         | <250       | 96        | 73-129       |            |
| Dichlorodifluoromethane     | ug/kg | 100         | <250       | 85        | 32-173       |            |
| Diethyl ether (Ethyl ether) | ug/kg | 100         | <200       | 94        | 50-150       |            |
| Ethylbenzene                | ug/kg | 100         | 98.5       | 98        | 74-127       |            |
| Iodomethane                 | ug/kg | 200         | 390J       | 195       | 10-200       |            |
| Isopropylbenzene (Cumene)   | ug/kg | 100         | <250       | 101       | 85-121       |            |
| m&p-Xylene                  | ug/kg | 200         | 193        | 96        | 72-130       |            |
| Methyl-tert-butyl ether     | ug/kg | 100         | <250       | 101       | 78-135       |            |
| Methylene Chloride          | ug/kg | 100         | 100        | 100       | 73-119       |            |
| n-Butylbenzene              | ug/kg | 100         | 104        | 104       | 69-126       |            |
| n-Propylbenzene             | ug/kg | 100         | <100       | 99        | 73-124       |            |
| Naphthalene                 | ug/kg | 100         | <330       | 101       | 71-128       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale

Pace Project No.: 50255203

LABORATORY CONTROL SAMPLE: 2576138

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| o-Xylene                    | ug/kg | 100         | 98.6       | 99        | 74-128       |            |
| p-Isopropyltoluene          | ug/kg | 100         | 103        | 103       | 74-124       |            |
| sec-Butylbenzene            | ug/kg | 100         | 102        | 102       | 72-124       |            |
| Styrene                     | ug/kg | 100         | 99.9       | 100       | 83-121       |            |
| tert-Butyl Alcohol          | ug/kg | 200         | <2500      | 109       | 50-150       |            |
| tert-Butylbenzene           | ug/kg | 100         | 77.5       | 77        | 54-104       |            |
| Tetrachloroethene           | ug/kg | 100         | 98.1       | 98        | 74-120       |            |
| Tetrahydrofuran             | ug/kg | 100         | <1000      | 101       | 53-135 N2    |            |
| Toluene                     | ug/kg | 100         | <100       | 96        | 71-124       |            |
| trans-1,2-Dichloroethene    | ug/kg | 100         | 107        | 107       | 73-131       |            |
| trans-1,3-Dichloropropene   | ug/kg | 100         | 100        | 100       | 68-128       |            |
| trans-1,4-Dichloro-2-butene | ug/kg | 400         | 376J       | 94        | 22-132       |            |
| Trichloroethene             | ug/kg | 100         | 92.4       | 92        | 75-121       |            |
| Trichlorofluoromethane      | ug/kg | 100         | 103        | 103       | 64-135       |            |
| Vinyl chloride              | ug/kg | 100         | 96.3       | 96        | 51-137       |            |
| 4-Bromofluorobenzene (S)    | %     |             |            | 102       | 60-142       |            |
| Dibromofluoromethane (S)    | %     |             |            | 102       | 62-137       |            |
| Toluene-d8 (S)              | %     |             |            | 102       | 64-139       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50255203

QC Batch: 559382 Analysis Method: EPA 8270 by SIM  
QC Batch Method: EPA 3546 Analysis Description: 8270 MSSV PAH by SIM  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50255203002, 50255203004, 50255203006

METHOD BLANK: 2579558 Matrix: Solid  
Associated Lab Samples: 50255203002, 50255203004, 50255203006

| Parameter              | Units | Blank Result | Reporting Limit | MDL | Analyzed       | Qualifiers |
|------------------------|-------|--------------|-----------------|-----|----------------|------------|
| 2-Methylnaphthalene    | ug/kg | <330         | 330             | 330 | 04/29/20 14:47 |            |
| Acenaphthene           | ug/kg | <330         | 330             | 330 | 04/29/20 14:47 |            |
| Acenaphthylene         | ug/kg | <330         | 330             | 330 | 04/29/20 14:47 |            |
| Anthracene             | ug/kg | <330         | 330             | 330 | 04/29/20 14:47 |            |
| Benzo(a)anthracene     | ug/kg | <330         | 330             | 330 | 04/29/20 14:47 |            |
| Benzo(a)pyrene         | ug/kg | <330         | 330             | 330 | 04/29/20 14:47 |            |
| Benzo(b)fluoranthene   | ug/kg | <330         | 330             | 330 | 04/29/20 14:47 |            |
| Benzo(g,h,i)perylene   | ug/kg | <330         | 330             | 330 | 04/29/20 14:47 |            |
| Benzo(k)fluoranthene   | ug/kg | <330         | 330             | 330 | 04/29/20 14:47 |            |
| Chrysene               | ug/kg | <330         | 330             | 330 | 04/29/20 14:47 |            |
| Dibenz(a,h)anthracene  | ug/kg | <330         | 330             | 330 | 04/29/20 14:47 |            |
| Fluoranthene           | ug/kg | <330         | 330             | 330 | 04/29/20 14:47 |            |
| Fluorene               | ug/kg | <330         | 330             | 330 | 04/29/20 14:47 |            |
| Indeno(1,2,3-cd)pyrene | ug/kg | <330         | 330             | 330 | 04/29/20 14:47 |            |
| Naphthalene            | ug/kg | <330         | 330             | 330 | 04/29/20 14:47 |            |
| Phenanthrene           | ug/kg | <330         | 330             | 330 | 04/29/20 14:47 |            |
| Pyrene                 | ug/kg | <330         | 330             | 330 | 04/29/20 14:47 |            |
| 2-Fluorobiphenyl (S)   | %     | 77           | 37-111          |     | 04/29/20 14:47 |            |
| p-Terphenyl-d14 (S)    | %     | 80           | 29-124          |     | 04/29/20 14:47 |            |

LABORATORY CONTROL SAMPLE: 2579559

| Parameter              | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| 2-Methylnaphthalene    | ug/kg | 332         | <329       | 83        | 50-117       |            |
| Acenaphthene           | ug/kg | 332         | <329       | 90        | 54-116       |            |
| Acenaphthylene         | ug/kg | 332         | <329       | 97        | 55-119       |            |
| Anthracene             | ug/kg | 332         | <329       | 96        | 51-122       |            |
| Benzo(a)anthracene     | ug/kg | 332         | <329       | 85        | 66-125       |            |
| Benzo(a)pyrene         | ug/kg | 332         | <329       | 94        | 61-133       |            |
| Benzo(b)fluoranthene   | ug/kg | 332         | 331        | 100       | 49-141       |            |
| Benzo(g,h,i)perylene   | ug/kg | 332         | <329       | 93        | 53-130       |            |
| Benzo(k)fluoranthene   | ug/kg | 332         | <329       | 98        | 51-135       |            |
| Chrysene               | ug/kg | 332         | <329       | 87        | 63-125       |            |
| Dibenz(a,h)anthracene  | ug/kg | 332         | <329       | 97        | 59-130       |            |
| Fluoranthene           | ug/kg | 332         | <329       | 99        | 65-128       |            |
| Fluorene               | ug/kg | 332         | <329       | 91        | 57-122       |            |
| Indeno(1,2,3-cd)pyrene | ug/kg | 332         | <329       | 95        | 62-122       |            |
| Naphthalene            | ug/kg | 332         | <329       | 80        | 48-109       |            |
| Phenanthrene           | ug/kg | 332         | <329       | 90        | 57-120       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50255203

LABORATORY CONTROL SAMPLE: 2579559

| Parameter            | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|-------------|------------|-----------|--------------|------------|
| Pyrene               | ug/kg | 332         | <329       | 84        | 53-127       |            |
| 2-Fluorobiphenyl (S) | %.    |             |            | 79        | 37-111       |            |
| p-Terphenyl-d14 (S)  | %.    |             |            | 80        | 29-124       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2579560 2579561

| Parameter              | Units | 50255146024 |             | MSD         |        | MS     |       | MSD   |        | % Rec Limits | RPD | Max RPD | Qual |
|------------------------|-------|-------------|-------------|-------------|--------|--------|-------|-------|--------|--------------|-----|---------|------|
|                        |       | Result      | Spike Conc. | Spike Conc. | Result | Result | % Rec | % Rec |        |              |     |         |      |
| 2-Methylnaphthalene    | ug/kg | ND          | 341         | 338         | <337   | 336    | 96    | 99    | 22-135 | 3            | 20  |         |      |
| Acenaphthene           | ug/kg | ND          | 341         | 338         | 344    | 357    | 101   | 105   | 34-123 | 4            | 20  |         |      |
| Acenaphthylene         | ug/kg | ND          | 341         | 338         | 371    | 373    | 109   | 110   | 34-127 | 1            | 20  |         |      |
| Anthracene             | ug/kg | ND          | 341         | 338         | 350    | 365    | 103   | 108   | 15-142 | 4            | 20  |         |      |
| Benzo(a)anthracene     | ug/kg | ND          | 341         | 338         | <337   | <335   | 87    | 96    | 23-148 | 9            | 20  |         |      |
| Benzo(a)pyrene         | ug/kg | ND          | 341         | 338         | <337   | 355    | 95    | 105   | 19-149 | 9            | 20  |         |      |
| Benzo(b)fluoranthene   | ug/kg | ND          | 341         | 338         | <337   | 387    | 95    | 114   | 13-153 | 18           | 20  |         |      |
| Benzo(g,h,i)perylene   | ug/kg | ND          | 341         | 338         | <337   | <335   | 88    | 98    | 10-144 | 9            | 20  |         |      |
| Benzo(k)fluoranthene   | ug/kg | ND          | 341         | 338         | 359    | 356    | 105   | 105   | 18-142 | 1            | 20  |         |      |
| Chrysene               | ug/kg | ND          | 341         | 338         | <337   | <335   | 90    | 98    | 22-146 | 8            | 20  |         |      |
| Dibenz(a,h)anthracene  | ug/kg | ND          | 341         | 338         | <337   | 356    | 97    | 105   | 28-133 | 7            | 20  |         |      |
| Fluoranthene           | ug/kg | ND          | 341         | 338         | 353    | 375    | 104   | 111   | 13-162 | 6            | 20  |         |      |
| Fluorene               | ug/kg | ND          | 341         | 338         | 346    | 360    | 102   | 106   | 32-134 | 4            | 20  |         |      |
| Indeno(1,2,3-cd)pyrene | ug/kg | ND          | 341         | 338         | <337   | 343    | 93    | 101   | 15-141 | 8            | 20  |         |      |
| Naphthalene            | ug/kg | ND          | 341         | 338         | <337   | <335   | 92    | 95    | 19-131 | 2            | 20  |         |      |
| Phenanthrene           | ug/kg | ND          | 341         | 338         | <337   | 349    | 98    | 103   | 16-149 | 5            | 20  |         |      |
| Pyrene                 | ug/kg | ND          | 341         | 338         | <337   | <335   | 89    | 97    | 13-152 | 8            | 20  |         |      |
| 2-Fluorobiphenyl (S)   | %.    |             |             |             |        |        | 87    | 91    | 37-111 |              |     |         |      |
| p-Terphenyl-d14 (S)    | %.    |             |             |             |        |        | 83    | 89    | 29-124 |              |     |         |      |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 8 Mile Ferndale

Pace Project No.: 50255203

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 8 Mile Ferndale  
Pace Project No.: 50255203

| Lab ID      | Sample ID   | QC Batch Method         | QC Batch | Analytical Method | Analytical Batch |
|-------------|-------------|-------------------------|----------|-------------------|------------------|
| 50255203002 | MW-121_9-10 | EPA 8015 Alcohol-Glycol | 558696   |                   |                  |
| 50255203004 | MW-120_4-5  | EPA 8015 Alcohol-Glycol | 558696   |                   |                  |
| 50255203006 | MW-119_6-7  | EPA 8015 Alcohol-Glycol | 558696   |                   |                  |
| 50255203001 | MW-121_2-3  | EPA 3050                | 559371   | EPA 6010          | 559924           |
| 50255203002 | MW-121_9-10 | EPA 3050                | 559371   | EPA 6010          | 559924           |
| 50255203003 | MW-120_2-3  | EPA 3050                | 559371   | EPA 6010          | 559924           |
| 50255203004 | MW-120_4-5  | EPA 3050                | 559371   | EPA 6010          | 559924           |
| 50255203005 | MW-119_2-3  | EPA 3050                | 559371   | EPA 6010          | 559924           |
| 50255203006 | MW-119_6-7  | EPA 3050                | 559371   | EPA 6010          | 559924           |
| 50255203007 | MW-115 Comp | EPA 3010                | 558885   | EPA 6010          | 559046           |
| 50255203001 | MW-121_2-3  | EPA 3050B               | 558799   | EPA 6020          | 559125           |
| 50255203002 | MW-121_9-10 | EPA 3050B               | 558799   | EPA 6020          | 559125           |
| 50255203003 | MW-120_2-3  | EPA 3050B               | 558799   | EPA 6020          | 559125           |
| 50255203004 | MW-120_4-5  | EPA 3050B               | 558799   | EPA 6020          | 559125           |
| 50255203005 | MW-119_2-3  | EPA 3050B               | 558799   | EPA 6020          | 559125           |
| 50255203006 | MW-119_6-7  | EPA 3050B               | 558799   | EPA 6020          | 559125           |
| 50255203001 | MW-121_2-3  | EPA 7471                | 558866   | EPA 7471          | 559851           |
| 50255203002 | MW-121_9-10 | EPA 7471                | 558866   | EPA 7471          | 559851           |
| 50255203003 | MW-120_2-3  | EPA 7471                | 558866   | EPA 7471          | 559851           |
| 50255203004 | MW-120_4-5  | EPA 7471                | 558866   | EPA 7471          | 559851           |
| 50255203005 | MW-119_2-3  | EPA 7471                | 558866   | EPA 7471          | 559851           |
| 50255203006 | MW-119_6-7  | EPA 7471                | 558866   | EPA 7471          | 559851           |
| 50255203002 | MW-121_9-10 | EPA 3546                | 559382   | EPA 8270 by SIM   | 559531           |
| 50255203004 | MW-120_4-5  | EPA 3546                | 559382   | EPA 8270 by SIM   | 559531           |
| 50255203006 | MW-119_6-7  | EPA 3546                | 559382   | EPA 8270 by SIM   | 559531           |
| 50255203002 | MW-121_9-10 | EPA 8260                | 558637   |                   |                  |
| 50255203004 | MW-120_4-5  | EPA 8260                | 558637   |                   |                  |
| 50255203006 | MW-119_6-7  | EPA 8260                | 558637   |                   |                  |
| 50255203001 | MW-121_2-3  | SM 2540G                | 558786   |                   |                  |
| 50255203002 | MW-121_9-10 | SM 2540G                | 558786   |                   |                  |
| 50255203003 | MW-120_2-3  | SM 2540G                | 558786   |                   |                  |
| 50255203004 | MW-120_4-5  | SM 2540G                | 558786   |                   |                  |
| 50255203005 | MW-119_2-3  | SM 2540G                | 558786   |                   |                  |
| 50255203006 | MW-119_6-7  | SM 2540G                | 558786   |                   |                  |

**REPORT OF LABORATORY ANALYSIS**

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# SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of

Project #: 50255203

person examining contents: MW 4-22-20 1550

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other \_\_\_\_\_

Tracking #: 1768 4585 9991

Custody Seal on Cooler/Box Present:  Yes  No      Seals Intact:  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_

Thermometer: 123456 ABCDEF <sup>MW 4-22-20</sup> Ice Type:  Wet  Blue  None | Samples collected today and on ice:  Yes  No  N/A

Cooler Temperature: \_\_\_\_\_ Ice Visible in Sample Containers?:  Yes  No  N/A

(Initial/Corrected) Temp should be above freezing to 6°C If temp. is Over 6°C or under 0°C, was the PM Notified?:  Yes  No  N/A

All discrepancies will be written out in the comments section below.

|   | Yes                                 | No                                  |   | Yes            | No                                  | N/A                                 |
|---|-------------------------------------|-------------------------------------|---|----------------|-------------------------------------|-------------------------------------|
| <b>Are samples from West Virginia?</b><br>Document any containers out of temp.                                    |                                     | <input checked="" type="checkbox"/> | All containers needing acid/base pres. Have been checked?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl. |                |                                     | <input checked="" type="checkbox"/> |
| <b>USDA Regulated Soils?</b> (ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico) |                                     | <input checked="" type="checkbox"/> | All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.                             |                |                                     |                                     |
| Chain of Custody Present:   | <input checked="" type="checkbox"/> |                                     | Circle: HNO3 H2SO4 NaOH NaOH/ZnAc   |                |                                     |                                     |
| Chain of Custody Filled Out:  | <input checked="" type="checkbox"/> |                                     | Dissolved Metals field filtered?:   |                |                                     | <input checked="" type="checkbox"/> |
| <b>Short Hold Time Analysis (&lt;72hr)?:</b><br>Analysis:   |                                     | <input checked="" type="checkbox"/> | Headspace Wisconsin Sulfide   |                |                                     | <input checked="" type="checkbox"/> |
| <b>Time 5035A TC placed in Freezer or Short Holds To Lab:</b>   |                                     |                                     | Residual Chlorine Check (SVOC 625 Pest/PCB 608)   | <u>Present</u> | <u>Absent</u>                       | <u>N/A</u>                          |
|   |                                     |                                     | Residual Chlorine Check (Total/Amenable/Free Cyanide)   |                |                                     | <input checked="" type="checkbox"/> |
| <b>Rush TAT Requested:</b>  |                                     | <input checked="" type="checkbox"/> | Headspace in VOA Vials (>6mm):  |                |                                     | <input checked="" type="checkbox"/> |
| Containers Intact?:   | <input checked="" type="checkbox"/> |                                     | Trip Blank Present?:  |                | <input checked="" type="checkbox"/> |                                     |
| Sample Labels (IDs/Dates/Times) Match COC?:<br>Except TCs, which only require sample ID                           | <input checked="" type="checkbox"/> |                                     | Trip Blank Custody Seals?:  |                | <input checked="" type="checkbox"/> |                                     |
| Extra labels on Terracore Vials (soils only)?   |                                     | <input checked="" type="checkbox"/> |   |                |                                     |                                     |

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### Sample Container Count

| Sample Line Item | WGUFU | SBS DI BK Kit | R | DG9H | VG9H | VOA VIALS (>6mm) | VG9U | DG9U | DG9T | AG0U | AG1H | AG1U | AG3S | BP1U | BP1N | BP2U | BP3U | BP3N | BP3F | BP3S | BP3B | BP3Z | CG3H | WG 16oz jar |  |  |  | Matrix | pH <2 | pH >9 | pH >12 |    |  |  |    |
|------------------|-------|---------------|---|------|------|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------|--|--|--|--------|-------|-------|--------|----|--|--|----|
|                  |       |               |   |      |      |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |  |  |  |        |       |       |        |    |  |  |    |
| 1                | 1     |               |   |      |      |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |  |  |  |        |       |       |        | SL |  |  |    |
| 2                |       |               | 2 |      |      |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |  |  |  |        |       |       |        |    |  |  |    |
| 3                |       |               |   |      |      |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |  |  |  |        |       |       |        |    |  |  |    |
| 4                |       |               | 2 |      |      |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |  |  |  |        |       |       |        |    |  |  |    |
| 5                |       |               |   |      |      |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |  |  |  |        |       |       |        |    |  |  |    |
| 6                | 1     |               | 2 |      |      |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |  |  |  |        |       |       |        |    |  |  |    |
| 7                |       |               |   |      |      |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |  |  |  |        |       |       |        |    |  |  | SL |
| 8                |       |               |   |      |      |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |  |  |  |        |       |       |        |    |  |  |    |
| 9                |       |               |   |      |      |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |  |  |  |        |       |       |        |    |  |  |    |
| 10               |       |               |   |      |      |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |  |  |  |        |       |       |        |    |  |  |    |
| 11               |       |               |   |      |      |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |  |  |  |        |       |       |        |    |  |  |    |
| 12               |       |               |   |      |      |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |  |  |  |        |       |       |        |    |  |  |    |

Container Codes

| Glass |                              |      |                               | Plastic / Misc. |                                     |      |                               |
|-------|------------------------------|------|-------------------------------|-----------------|-------------------------------------|------|-------------------------------|
| DG9B  | 40mL Na Bisulfate amber vial | AG0U | 100mL unpres amber glass      | BP1A            | 1L NaOH, Asc Acid plastic           | BP3U | 250mL unpreserved plastic     |
| DG9H  | 40mL HCl amber voa vial      | AG1H | 1L HCl amber glass            | BP1N            | 1L HNO3 plastic                     | BP3S | 250mL H2SO4 plastic           |
| DG9M  | 40mL MeOH clear vial         | AG1S | 1L H2SO4 amber glass          | BP1S            | 1L H2SO4 plastic                    | BP3Z | 250mL NaOH, Zn Ac plastic     |
| DG9P  | 40mL TSP amber vial          | AG1T | 1L Na Thiosulfate amber glass | BP1U            | 1L unpreserved plastic              |      |                               |
| DG9S  | 40mL H2SO4 amber vial        | AG1U | 1liter unpres amber glass     | BP1Z            | 1L NaOH, Zn, Ac                     |      |                               |
| DG9T  | 40mL Na Thio amber vial      | AG2N | 500mL HNO3 amber glass        | BP2A            | 500mL NaOH, Asc Acid plastic        | AF   | Air Filter                    |
| DG9U  | 40mL unpreserved amber vial  | AG2S | 500mL H2SO4 amber glass       | BP2N            | 500mL HNO3 plastic                  | C    | Air Cassettes                 |
| VG9H  | 40mL HCl clear vial          | AG2U | 500mL unpres amber glass      | BP2O            | 500mL NaOH plastic                  | R    | Terra core kit                |
| VG9T  | 40mL Na Thio. clear vial     | AG3S | 250mL H2SO4 amber glass       | BP2S            | 500mL H2SO4 plastic                 | SP5T | 120mL Coliform Na Thiosulfate |
| VG9U  | 40mL unpreserved clear vial  | AG3U | 250mL unpres amber glass      | BP2U            | 500mL unpreserved plastic           | U    | Summa Can                     |
| VGFX  | 40mL w/hexane wipe vial      | BG1H | 1L HCl clear glass            | BP2Z            | 500mL NaOH, Zn Ac                   | ZPLC | Ziploc Bag                    |
| VSG   | Headspace septa vial & HCl   | BG1S | 1L H2SO4 clear glass          | BP3B            | 250mL NaOH plastic                  |      |                               |
| WGKU  | 8oz unpreserved clear jar    | BG1T | 1L Na Thiosulfate clear glass | BP3N            | 250mL HNO3 plastic                  | WT   | Water                         |
| WGUFU | 4oz clear soil jar           | BG1U | 1L unpreserved glass          | BP3F            | 250mL HNO3 plastic (field filtered) | SL   | Solid                         |
| JGFU  | 4oz unpreserved amber wide   | BG3H | 250mL HCl Clear Glass         |                 |                                     | NAL  | Non-aqueous liquid            |
| CG3H  | 250mL clear glass HCl        | BG3U | 250mL Unpres Clear Glass      |                 |                                     | WP   | Wipe                          |

July 10, 2020

Ryann Scott  
ATC Group Services - Novi  
46555 Humboldt Drive  
Suite 100  
Novi, MI 48377

RE: Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

Dear Ryann Scott:

Enclosed are the analytical results for sample(s) received by the laboratory on June 18, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

Revised Report. This report replaces the original dated 063020, it has been revised to add Chromium Speciation to sample -005 and 8270 TICs to sample -008, per client request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Brian Hall  
brian.hall@pacelabs.com  
(616)975-4500  
Project Manager

Enclosures

cc: AP c/o Abigail Jardine, ATC Group Services  
Michael Hauswirth, ATC Group Services  
Joshua Schuyler, ATC Group Services - Novi



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

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### **Pace Analytical Services Indianapolis**

7726 Moller Road, Indianapolis, IN 46268  
Illinois Accreditation #: 200074  
Indiana Drinking Water Laboratory #: C-49-06  
Kansas/TNI Certification #: E-10177  
Kentucky UST Agency Interest #: 80226  
Kentucky WW Laboratory ID #: 98019  
Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065  
Oklahoma Laboratory #: 9204  
Texas Certification #: T104704355  
West Virginia Certification #: 330  
Wisconsin Laboratory #: 999788130  
USDA Soil Permit #: P330-19-00257

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

| Lab ID      | Sample ID         | Matrix | Date Collected | Date Received  |
|-------------|-------------------|--------|----------------|----------------|
| 50260268001 | MW-122 (4-5')     | Solid  | 06/15/20 13:37 | 06/18/20 09:25 |
| 50260268002 | MW-123 (4-5')     | Solid  | 06/15/20 13:15 | 06/18/20 09:25 |
| 50260268003 | MW-124 (4-5')     | Solid  | 06/15/20 12:40 | 06/18/20 09:25 |
| 50260268004 | MW-125 (4-5')     | Solid  | 06/16/20 11:00 | 06/18/20 09:25 |
| 50260268005 | MW-126 (4-5')     | Solid  | 06/15/20 10:20 | 06/18/20 09:25 |
| 50260268006 | MW-126 (7.5-8.5') | Solid  | 06/15/20 10:30 | 06/18/20 09:25 |
| 50260268007 | MW-127 (6-7')     | Solid  | 06/15/20 11:30 | 06/18/20 09:25 |
| 50260268008 | MW-127 (10-11')   | Solid  | 06/15/20 13:00 | 06/18/20 09:25 |
| 50260268009 | MW-128 (4-5')     | Solid  | 06/15/20 09:45 | 06/18/20 09:25 |
| 50260268010 | MW-128 (8-9')     | Solid  | 06/15/20 09:47 | 06/18/20 09:25 |
| 50260268011 | MW-129 (3-4')     | Solid  | 06/15/20 11:56 | 06/18/20 09:25 |
| 50260268012 | MW-130 (4-5')     | Solid  | 06/15/20 14:22 | 06/18/20 09:25 |
| 50260268013 | MW-131 (2-3')     | Solid  | 06/15/20 13:55 | 06/18/20 09:25 |
| 50260268014 | Dup. 1            | Solid  | 06/15/20 12:00 | 06/18/20 09:25 |
| 50260268015 | Dup. 2            | Solid  | 06/16/20 12:00 | 06/18/20 09:25 |
| 50260268016 | Trip Blank        | Solid  | 06/15/20 14:29 | 06/18/20 09:25 |
| 50260268017 | Trip Blank        | Solid  | 06/15/20 14:30 | 06/18/20 09:25 |
| 50260268018 | Field Blank       | Solid  | 06/15/20 12:00 | 06/18/20 09:25 |

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### SAMPLE ANALYTE COUNT

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

| Lab ID      | Sample ID     | Method                  | Analysts | Analytes Reported |
|-------------|---------------|-------------------------|----------|-------------------|
| 50260268001 | MW-122 (4-5') | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |               | EPA 6010                | KJE      | 19                |
|             |               | EPA 6020                | DMT      | 7                 |
|             |               | EPA 7471                | ILP      | 1                 |
|             |               | EPA 8270                | JCM      | 67                |
|             |               | EPA 8260                | JPV      | 75                |
|             |               | SM 2540G                | RM1      | 1                 |
| 50260268002 | MW-123 (4-5') | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |               | EPA 8082                | RID      | 10                |
|             |               | EPA 6010                | KJE      | 19                |
|             |               | EPA 6020                | DMT      | 7                 |
|             |               | EPA 7471                | ILP      | 1                 |
|             |               | EPA 8270                | JCM      | 67                |
|             |               | EPA 8260                | JPV      | 75                |
| 50260268003 | MW-124 (4-5') | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |               | EPA 6010                | KJE      | 19                |
|             |               | EPA 6020                | DMT      | 7                 |
|             |               | EPA 7471                | ILP      | 1                 |
|             |               | EPA 8270                | JCM      | 67                |
|             |               | EPA 8260                | JPV      | 75                |
|             |               | SM 2540G                | RM1      | 1                 |
| 50260268004 | MW-125 (4-5') | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |               | EPA 8082                | RID      | 10                |
|             |               | EPA 6010                | KJE      | 19                |
|             |               | EPA 6020                | DMT      | 7                 |
|             |               | EPA 7471                | ILP      | 1                 |
|             |               | EPA 8270                | JCM      | 67                |
|             |               | EPA 8260                | JPV      | 75                |
| 50260268005 | MW-126 (4-5') | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |               | EPA 6010                | KJE      | 19                |
|             |               | EPA 6020                | DMT      | 7                 |
|             |               | EPA 7471                | ILP      | 1                 |
|             |               | EPA 8270                | JCM      | 67                |
|             |               | EPA 8260                | JPV      | 75                |
|             |               | SM 2540G                | RM1      | 1                 |

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### SAMPLE ANALYTE COUNT

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

| Lab ID      | Sample ID         | Method                         | Analysts | Analytes Reported |
|-------------|-------------------|--------------------------------|----------|-------------------|
| 50260268006 | MW-126 (7.5-8.5') | EPA 7196A                      | DAS      | 1                 |
|             |                   | Trivalent Chromium Calculation | DAC1     | 1                 |
|             |                   | EPA 8015 Alcohol-Glycol        | CPH      | 3                 |
|             |                   | EPA 6010                       | KJE      | 19                |
|             |                   | EPA 6020                       | DMT      | 7                 |
|             |                   | EPA 7471                       | ILP      | 1                 |
|             |                   | EPA 8270                       | JCM      | 67                |
| 50260268007 | MW-127 (6-7')     | EPA 8260                       | JPV      | 75                |
|             |                   | SM 2540G                       | RM1      | 1                 |
|             |                   | EPA 8015 Alcohol-Glycol        | CPH      | 3                 |
|             |                   | EPA 6010                       | KJE      | 19                |
|             |                   | EPA 6020                       | DMT      | 7                 |
|             |                   | EPA 7471                       | ILP      | 1                 |
|             |                   | EPA 8270                       | JCM      | 67                |
| 50260268008 | MW-127 (10-11')   | EPA 8260                       | JPV      | 75                |
|             |                   | SM 2540G                       | RM1      | 1                 |
|             |                   | EPA 8015 Alcohol-Glycol        | CPH      | 3                 |
|             |                   | EPA 8082                       | RID      | 10                |
|             |                   | EPA 6010                       | KJE      | 19                |
|             |                   | EPA 6020                       | DMT      | 7                 |
|             |                   | EPA 7471                       | ILP      | 1                 |
| 50260268009 | MW-128 (4-5')     | EPA 8270                       | JCM      | 97                |
|             |                   | EPA 8260                       | JPV      | 75                |
|             |                   | SM 2540G                       | RM1      | 1                 |
|             |                   | EPA 8015 Alcohol-Glycol        | CPH      | 3                 |
|             |                   | EPA 8082                       | RID      | 10                |
|             |                   | EPA 6010                       | KJE      | 19                |
|             |                   | EPA 6020                       | DMT      | 7                 |
| 50260268010 | MW-128 (8-9')     | EPA 7471                       | ILP      | 1                 |
|             |                   | EPA 8270                       | JCM      | 67                |
|             |                   | EPA 8260                       | JPV      | 75                |
|             |                   | SM 2540G                       | RM1      | 1                 |
|             |                   | EPA 8015 Alcohol-Glycol        | CPH      | 3                 |
|             |                   | EPA 6010                       | KJE      | 19                |
|             |                   | EPA 6020                       | DMT      | 7                 |
| 50260268010 | MW-128 (8-9')     | EPA 7471                       | ILP      | 1                 |
|             |                   | EPA 8270                       | JCM      | 67                |
|             |                   | EPA 8260                       | JPV      | 75                |

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

| Lab ID      | Sample ID     | Method                  | Analysts | Analytes Reported |
|-------------|---------------|-------------------------|----------|-------------------|
| 50260268011 | MW-129 (3-4') | EPA 8260                | JPV      | 75                |
|             |               | SM 2540G                | RM1      | 1                 |
|             |               | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |               | EPA 6010                | KJE      | 19                |
|             |               | EPA 6020                | DMT      | 7                 |
|             |               | EPA 7471                | ILP      | 1                 |
|             |               | EPA 8270                | JCM      | 67                |
| 50260268012 | MW-130 (4-5') | EPA 8260                | JPV      | 75                |
|             |               | SM 2540G                | RM1      | 1                 |
|             |               | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |               | EPA 8082                | RID      | 10                |
|             |               | EPA 6010                | KJE      | 19                |
|             |               | EPA 6020                | DMT      | 7                 |
|             |               | EPA 7471                | ILP      | 1                 |
| 50260268013 | MW-131 (2-3') | EPA 8270                | JCM      | 67                |
|             |               | EPA 8260                | JPV      | 75                |
|             |               | SM 2540G                | RM1      | 1                 |
|             |               | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |               | EPA 6010                | KJE      | 19                |
|             |               | EPA 6020                | DMT      | 7                 |
|             |               | EPA 7471                | ILP      | 1                 |
| 50260268014 | Dup. 1        | EPA 8270                | JCM      | 67                |
|             |               | EPA 8260                | JPV      | 75                |
|             |               | SM 2540G                | RM1      | 1                 |
|             |               | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |               | EPA 6010                | KJE      | 19                |
|             |               | EPA 6020                | DMT      | 7                 |
|             |               | EPA 7471                | ILP      | 1                 |
| 50260268015 | Dup. 2        | EPA 8270                | JCM      | 67                |
|             |               | EPA 8260                | JPV      | 75                |
|             |               | SM 2540G                | RM1      | 1                 |
|             |               | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |               | EPA 6010                | KJE      | 19                |
|             |               | EPA 6020                | DMT      | 7                 |
|             |               | EPA 7471                | ILP      | 1                 |

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### SAMPLE ANALYTE COUNT

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

| Lab ID      | Sample ID   | Method   | Analysts | Analytes Reported |
|-------------|-------------|----------|----------|-------------------|
|             |             | SM 2540G | RM1      | 1                 |
| 50260268016 | Trip Blank  | EPA 8260 | JPV      | 75                |
| 50260268017 | Trip Blank  | EPA 8260 | JPV      | 75                |
| 50260268018 | Field Blank | EPA 8260 | JPV      | 75                |

PASI-I = Pace Analytical Services - Indianapolis

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-122 (4-5)**      **Lab ID: 50260268001**      Collected: 06/15/20 13:37      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL    | DF  | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|--------|-----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                     |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| n-Butanol  | <4830   | ug/kg | 4830   | 4830   | 1   |                | 06/22/20 15:32 | 71-36-3   |      |
| Ethanol  | <2750   | ug/kg | 2750   | 2750   | 1   |                | 06/22/20 15:32 | 64-17-5   |      |
| Methanol   | <4830   | ug/kg | 4830   | 4830   | 1   |                | 06/22/20 15:32 | 67-56-1   |      |
| <b>6010 MET ICP</b>  |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050  |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| Antimony   | <1010   | ug/kg | 1010   | 1010   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7440-36-0 |      |
| Arsenic  | 2510    | ug/kg | 2020   | 2020   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7440-38-2 |      |
| Barium   | 48100   | ug/kg | 1010   | 1010   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7440-39-3 |      |
| Beryllium  | <506    | ug/kg | 506    | 506    | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7440-41-7 |      |
| Boron  | <8090   | ug/kg | 8090   | 8090   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7440-42-8 |      |
| Calcium  | 8920000 | ug/kg | 50600  | 6710   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7440-70-2 |      |
| Chromium   | 8690    | ug/kg | 2020   | 2020   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7440-47-3 |      |
| Copper   | 6720    | ug/kg | 1010   | 1010   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7440-50-8 |      |
| Iron   | 5840000 | ug/kg | 25300  | 7690   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7439-89-6 |      |
| Lead   | 50700   | ug/kg | 10100  | 10100  | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7439-92-1 |      |
| Magnesium  | 2440000 | ug/kg | 25300  | 4050   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7439-95-4 |      |
| Manganese  | 89200   | ug/kg | 1010   | 1010   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7439-96-5 |      |
| Molybdenum   | <1010   | ug/kg | 1010   | 1010   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7439-98-7 |      |
| Nickel   | 4940    | ug/kg | 1010   | 1010   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7440-02-0 |      |
| Potassium  | 238000  | ug/kg | 50600  | 4950   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7440-09-7 |      |
| Sodium   | 31000   | ug/kg | 25300  | 13800  | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7440-23-5 |      |
| Strontium  | 12200   | ug/kg | 5060   | 5060   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7440-24-6 |      |
| Vanadium   | 14200   | ug/kg | 1010   | 1010   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7440-62-2 |      |
| Zinc   | 48800   | ug/kg | 1010   | 1010   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7440-66-6 |      |
| <b>6020 MET ICPMS</b>  |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| Aluminum   | 4330000 | ug/kg | 109000 | 109000 | 100 | 06/24/20 09:22 | 06/30/20 00:18 | 7429-90-5 |      |
| Cadmium  | <218    | ug/kg | 218    | 218    | 1   | 06/24/20 09:22 | 06/25/20 13:27 | 7440-43-9 |      |
| Cobalt   | 1400    | ug/kg | 544    | 544    | 1   | 06/24/20 09:22 | 06/25/20 13:27 | 7440-48-4 |      |
| Selenium   | 262     | ug/kg | 218    | 218    | 1   | 06/24/20 09:22 | 06/25/20 13:27 | 7782-49-2 |      |
| Silver   | 157     | ug/kg | 109    | 109    | 1   | 06/24/20 09:22 | 06/25/20 13:27 | 7440-22-4 |      |
| Thallium   | <544    | ug/kg | 544    | 544    | 1   | 06/24/20 09:22 | 06/25/20 13:27 | 7440-28-0 |      |
| Titanium   | 237000  | ug/kg | 10900  | 2890   | 100 | 06/24/20 09:22 | 06/30/20 00:18 | 7440-32-6 | N2   |
| <b>7471 Mercury</b>  |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 7471      Preparation Method: EPA 7471  |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| Mercury  | 1110    | ug/kg | 111    | 87.4   | 1   | 06/26/20 02:49 | 06/26/20 07:06 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                       |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 8270      Preparation Method: EPA 3546  |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| Acenaphthene   | <352    | ug/kg | 352    | 352    | 1   | 06/23/20 12:30 | 06/24/20 11:48 | 83-32-9   |      |
| Acenaphthylene   | <352    | ug/kg | 352    | 352    | 1   | 06/23/20 12:30 | 06/24/20 11:48 | 208-96-8  |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

**Sample: MW-122 (4-5)**      **Lab ID: 50260268001**      Collected: 06/15/20 13:37      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                 |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |      |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |      |      |    |                |                |           |      |
| Anthracene   | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 120-12-7  |      |
| Benzo(a)anthracene                                       | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 56-55-3   |      |
| Benzo(a)pyrene   | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 50-32-8   |      |
| Benzo(b)fluoranthene                                     | 427     | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 205-99-2  |      |
| Benzo(g,h,i)perylene                                     | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 191-24-2  |      |
| Benzo(k)fluoranthene                                     | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 207-08-9  |      |
| 4-Bromophenylphenyl ether                                | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 101-55-3  |      |
| Butylbenzylphthalate                                     | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 85-68-7   |      |
| Carbazole  | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                  | <299    | ug/kg | 352  | 299  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                               | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                 | <171    | ug/kg | 352  | 171  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                             | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 108-60-1  |      |
| 2-Chloronaphthalene                                      | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 91-58-7   |      |
| 2-Chlorophenol   | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                               | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 7005-72-3 |      |
| Chrysene   | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                    | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 53-70-3   |      |
| Dibenzofuran   | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 132-64-9  |      |
| 2,4-Dichlorophenol                                       | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 120-83-2  |      |
| Diethylphthalate   | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 84-66-2   |      |
| 2,4-Dimethylphenol                                       | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 105-67-9  |      |
| Dimethylphthalate  | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 131-11-3  |      |
| Di-n-butylphthalate                                      | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                               | <885    | ug/kg | 885  | 885  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 534-52-1  |      |
| 2,4-Dinitrophenol  | <1710   | ug/kg | 1710 | 1710 | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 51-28-5   |      |
| 2,4-Dinitrotoluene                                       | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 121-14-2  |      |
| 2,6-Dinitrotoluene                                       | <94.4   | ug/kg | 352  | 94.4 | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 606-20-2  |      |
| Di-n-octylphthalate                                      | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                    | <1710   | ug/kg | 1710 | 1710 | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate                               | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 117-81-7  |      |
| Fluoranthene   | 689     | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 206-44-0  |      |
| Fluorene   | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                 | <102    | ug/kg | 352  | 102  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 87-68-3   |      |
| Hexachlorobenzene  | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                | <1070   | ug/kg | 1070 | 1070 | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 77-47-4   |      |
| Hexachloroethane   | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                   | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 193-39-5  |      |
| Isophorone   | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 78-59-1   |      |
| 2-Methylnaphthalene                                      | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                 | <1070   | ug/kg | 1070 | 1070 | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                             | <1070   | ug/kg | 1070 | 1070 | 1  | 06/23/20 12:30 | 06/24/20 11:48 |           |      |
| Naphthalene  | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 91-20-3   |      |
| 2-Nitroaniline   | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 88-74-4   |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-122 (4-5)**      **Lab ID: 50260268001**      Collected: 06/15/20 13:37      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                    |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| 3-Nitroaniline  | <352    | ug/kg | 352    | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 99-09-2   |      |
| 4-Nitroaniline  | <352    | ug/kg | 352    | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 100-01-6  |      |
| Nitrobenzene  | <352    | ug/kg | 352    | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 98-95-3   |      |
| 2-Nitrophenol   | <352    | ug/kg | 352    | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 88-75-5   |      |
| 4-Nitrophenol   | <1710   | ug/kg | 1710   | 1710 | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 100-02-7  |      |
| N-Nitrosodimethylamine                                      | <352    | ug/kg | 352    | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                                  | <352    | ug/kg | 352    | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                      | <352    | ug/kg | 352    | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 86-30-6   |      |
| Pentachlorophenol   | <1570   | ug/kg | 1710   | 1570 | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 87-86-5   |      |
| Phenanthrene  | <352    | ug/kg | 352    | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 85-01-8   |      |
| Phenol  | <352    | ug/kg | 352    | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 108-95-2  |      |
| Pyrene  | 586     | ug/kg | 352    | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                      | <352    | ug/kg | 352    | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                       | <352    | ug/kg | 352    | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                       | <352    | ug/kg | 352    | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 88-06-2   |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)   | 62      | %     | 26-96  |      | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 4165-60-0 |      |
| Phenol-d5 (S)   | 74      | %     | 32-93  |      | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 4165-62-2 |      |
| 2-Fluorophenol (S)  | 79      | %     | 24-95  |      | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                    | 78      | %     | 20-109 |      | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 118-79-6  |      |
| 2-Fluorobiphenyl (S)  | 74      | %     | 36-91  |      | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 88      | %     | 27-117 |      | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                              |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                                 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| Acetone   | <1050   | ug/kg | 1050   | 1050 | 1  |                | 06/24/20 03:37 | 67-64-1   |      |
| Acrylonitrile   | <105    | ug/kg | 105    | 105  | 1  |                | 06/24/20 03:37 | 107-13-1  |      |
| tert-Amylmethyl ether                                       | <264    | ug/kg | 264    | 264  | 1  |                | 06/24/20 03:37 | 994-05-8  | N2   |
| Benzene   | <52.7   | ug/kg | 52.7   | 52.7 | 1  |                | 06/24/20 03:37 | 71-43-2   |      |
| Bromobenzene  | <105    | ug/kg | 105    | 105  | 1  |                | 06/24/20 03:37 | 108-86-1  |      |
| Bromochloromethane  | <26.4   | ug/kg | 52.7   | 26.4 | 1  |                | 06/24/20 03:37 | 74-97-5   |      |
| Bromodichloromethane  | <105    | ug/kg | 105    | 105  | 1  |                | 06/24/20 03:37 | 75-27-4   |      |
| Bromoform   | <105    | ug/kg | 105    | 105  | 1  |                | 06/24/20 03:37 | 75-25-2   |      |
| Bromomethane  | <211    | ug/kg | 211    | 211  | 1  |                | 06/24/20 03:37 | 74-83-9   |      |
| 2-Butanone (MEK)  | <791    | ug/kg | 791    | 791  | 1  |                | 06/24/20 03:37 | 78-93-3   |      |
| tert-Butyl Alcohol  | <2640   | ug/kg | 2640   | 2640 | 1  |                | 06/24/20 03:37 | 75-65-0   |      |
| n-Butylbenzene  | <52.7   | ug/kg | 52.7   | 52.7 | 1  |                | 06/24/20 03:37 | 104-51-8  |      |
| sec-Butylbenzene  | <52.7   | ug/kg | 52.7   | 52.7 | 1  |                | 06/24/20 03:37 | 135-98-8  |      |
| tert-Butylbenzene   | <52.7   | ug/kg | 52.7   | 52.7 | 1  |                | 06/24/20 03:37 | 98-06-6   |      |
| Carbon disulfide  | <264    | ug/kg | 264    | 264  | 1  |                | 06/24/20 03:37 | 75-15-0   |      |
| Carbon tetrachloride  | <52.7   | ug/kg | 52.7   | 52.7 | 1  |                | 06/24/20 03:37 | 56-23-5   |      |
| Chlorobenzene   | <52.7   | ug/kg | 52.7   | 52.7 | 1  |                | 06/24/20 03:37 | 108-90-7  |      |
| Chloroethane  | <264    | ug/kg | 264    | 264  | 1  |                | 06/24/20 03:37 | 75-00-3   |      |
| Chloroform  | <52.7   | ug/kg | 52.7   | 52.7 | 1  |                | 06/24/20 03:37 | 67-66-3   |      |

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-122 (4-5)**      **Lab ID: 50260268001**      Collected: 06/15/20 13:37      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Chloromethane                  | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 03:37 | 74-87-3    |      |
| Cyclohexane                    | <527    | ug/kg  | 527  | 527  | 1  |          | 06/24/20 03:37 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 03:37 | 96-12-8    |      |
| Dibromochloromethane           | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 03:37 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 03:37 | 106-93-4   |      |
| Dibromomethane                 | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 03:37 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 03:37 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 03:37 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 03:37 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <105    | ug/kg  | 1050 | 105  | 1  |          | 06/24/20 03:37 | 110-57-6   |      |
| Dichlorodifluoromethane        | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 03:37 | 75-71-8    |      |
| 1,1-Dichloroethane             | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 03:37 | 75-34-3    |      |
| 1,2-Dichloroethane             | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 03:37 | 107-06-2   |      |
| 1,1-Dichloroethene             | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 03:37 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 03:37 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 03:37 | 156-60-5   |      |
| 1,2-Dichloropropane            | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 03:37 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 03:37 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 03:37 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <211    | ug/kg  | 211  | 211  | 1  |          | 06/24/20 03:37 | 60-29-7    |      |
| Diisopropyl ether              | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 03:37 | 108-20-3   | N2   |
| Ethylbenzene                   | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 03:37 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 03:37 | 637-92-3   | N2   |
| Hexachloroethane               | <316    | ug/kg  | 316  | 316  | 1  |          | 06/24/20 03:37 | 67-72-1    | N2   |
| 2-Hexanone                     | <2640   | ug/kg  | 2640 | 2640 | 1  |          | 06/24/20 03:37 | 591-78-6   |      |
| Iodomethane                    | <105    | ug/kg  | 1050 | 105  | 1  |          | 06/24/20 03:37 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 03:37 | 98-82-8    |      |
| p-Isopropyltoluene             | <26.4   | ug/kg  | 52.7 | 26.4 | 1  |          | 06/24/20 03:37 | 99-87-6    |      |
| Methylene Chloride             | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 03:37 | 75-09-2    |      |
| 2-Methylnaphthalene            | <348    | ug/kg  | 348  | 348  | 1  |          | 06/24/20 03:37 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)    | <2640   | ug/kg  | 2640 | 2640 | 1  |          | 06/24/20 03:37 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 03:37 | 1634-04-4  |      |
| Naphthalene                    | <348    | ug/kg  | 348  | 348  | 1  |          | 06/24/20 03:37 | 91-20-3    |      |
| n-Propylbenzene                | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 03:37 | 103-65-1   |      |
| Styrene                        | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 03:37 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 03:37 | 630-20-6   |      |
| 1,1,1,2-Tetrachloroethane      | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 03:37 | 79-34-5    |      |
| Tetrachloroethene              | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 03:37 | 127-18-4   |      |
| Tetrahydrofuran                | <1050   | ug/kg  | 1050 | 1050 | 1  |          | 06/24/20 03:37 | 109-99-9   | N2   |
| Toluene                        | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 03:37 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene         | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 03:37 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene         | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 03:37 | 120-82-1   |      |
| 1,1,1-Trichloroethane          | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 03:37 | 71-55-6    |      |
| 1,1,2-Trichloroethane          | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 03:37 | 79-00-5    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-122 (4-5)**      **Lab ID: 50260268001**      Collected: 06/15/20 13:37      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|---------|--|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Trichloroethene                | <52.7   | ug/kg  | 52.7   | 52.7 | 1  |          | 06/24/20 03:37 | 79-01-6     |      |
| Trichlorofluoromethane         | <105    | ug/kg  | 105    | 105  | 1  |          | 06/24/20 03:37 | 75-69-4     |      |
| 1,2,3-Trichloropropane         | <105    | ug/kg  | 105    | 105  | 1  |          | 06/24/20 03:37 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene         | <264    | ug/kg  | 264    | 264  | 1  |          | 06/24/20 03:37 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene         | <105    | ug/kg  | 105    | 105  | 1  |          | 06/24/20 03:37 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | <105    | ug/kg  | 105    | 105  | 1  |          | 06/24/20 03:37 | 108-67-8    |      |
| Vinyl chloride                 | <42.2   | ug/kg  | 42.2   | 42.2 | 1  |          | 06/24/20 03:37 | 75-01-4     |      |
| m&p-Xylene                     | <26.4   | ug/kg  | 52.7   | 26.4 | 1  |          | 06/24/20 03:37 | 179601-23-1 |      |
| o-Xylene                       | <26.4   | ug/kg  | 52.7   | 26.4 | 1  |          | 06/24/20 03:37 | 95-47-6     |      |
| <b>Surrogates</b>              |         |  |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)       | 103     | %  | 62-137 |      | 1  |          | 06/24/20 03:37 | 1868-53-7   |      |
| Toluene-d8 (S)                 | 99      | %  | 64-139 |      | 1  |          | 06/24/20 03:37 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)       | 104     | %  | 60-142 |      | 1  |          | 06/24/20 03:37 | 460-00-4    |      |
| <b>Percent Moisture</b>        |         | Analytical Method: SM 2540G<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Percent Moisture               | 9.0     | %  | 0.10   | 0.10 | 1  |          | 06/23/20 13:45 |             |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-123 (4-5)**      **Lab ID: 50260268002**      Collected: 06/15/20 13:15      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL    | DF  | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|--------|--------|-----|----------------|----------------|------------|------|
| <b>8015M Alcohols in solids</b>                                |         |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                     |         |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |            |      |
| n-Butanol  | <4700   | ug/kg | 4700   | 4700   | 1   |                | 06/22/20 16:06 | 71-36-3    |      |
| Ethanol  | <2670   | ug/kg | 2670   | 2670   | 1   |                | 06/22/20 16:06 | 64-17-5    |      |
| Methanol   | <4700   | ug/kg | 4700   | 4700   | 1   |                | 06/22/20 16:06 | 67-56-1    |      |
| <b>8082 GCS PCB Solids</b>                                     |         |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 8082      Preparation Method: EPA 3546  |         |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |            |      |
| PCB-1016 (Aroclor 1016)  | <350    | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 18:06 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)  | <350    | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 18:06 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)  | <350    | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 18:06 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)  | <350    | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 18:06 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)  | <350    | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 18:06 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)  | <350    | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 18:06 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)  | <350    | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 18:06 | 11096-82-5 |      |
| PCB-1262 (Aroclor 1262)  | <350    | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 18:06 | 37324-23-5 | N2   |
| PCB-1268 (Aroclor 1268)  | <350    | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 18:06 | 11100-14-4 | N2   |
| <b>Surrogates</b>  |         |       |        |        |     |                |                |            |      |
| Tetrachloro-m-xylene (S)                                       | 69      | %     | 25-123 |        | 1   | 06/24/20 21:50 | 06/25/20 18:06 | 877-09-8   |      |
| <b>6010 MET ICP</b>  |         |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050  |         |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |            |      |
| Antimony   | <929    | ug/kg | 929    | 929    | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7440-36-0  |      |
| Arsenic  | 2530    | ug/kg | 1860   | 1860   | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7440-38-2  |      |
| Barium   | 12700   | ug/kg | 929    | 929    | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7440-39-3  |      |
| Beryllium  | <464    | ug/kg | 464    | 464    | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7440-41-7  |      |
| Boron  | <7430   | ug/kg | 7430   | 7430   | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7440-42-8  |      |
| Calcium  | 703000  | ug/kg | 46400  | 6160   | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7440-70-2  |      |
| Chromium   | 7230    | ug/kg | 1860   | 1860   | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7440-47-3  |      |
| Copper   | 2000    | ug/kg | 929    | 929    | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7440-50-8  |      |
| Iron   | 6680000 | ug/kg | 23200  | 7060   | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7439-89-6  |      |
| Lead   | <9290   | ug/kg | 9290   | 9290   | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7439-92-1  |      |
| Magnesium  | 834000  | ug/kg | 23200  | 3720   | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7439-95-4  |      |
| Manganese  | 126000  | ug/kg | 929    | 929    | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7439-96-5  |      |
| Molybdenum   | <929    | ug/kg | 929    | 929    | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7439-98-7  |      |
| Nickel   | 3880    | ug/kg | 929    | 929    | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7440-02-0  |      |
| Potassium  | 144000  | ug/kg | 46400  | 4540   | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7440-09-7  |      |
| Sodium   | 28100   | ug/kg | 23200  | 12600  | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7440-23-5  |      |
| Strontium  | <4640   | ug/kg | 4640   | 4640   | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7440-24-6  |      |
| Vanadium   | 13300   | ug/kg | 929    | 929    | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7440-62-2  |      |
| Zinc   | 7510    | ug/kg | 929    | 929    | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7440-66-6  |      |
| <b>6020 MET ICPMS</b>  |         |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B |         |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |            |      |
| Aluminum   | 2870000 | ug/kg | 101000 | 101000 | 100 | 06/24/20 09:22 | 06/30/20 00:41 | 7429-90-5  |      |
| Cadmium  | <203    | ug/kg | 203    | 203    | 1   | 06/24/20 09:22 | 06/25/20 14:22 | 7440-43-9  |      |

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-123 (4-5)**      **Lab ID: 50260268002**      Collected: 06/15/20 13:15      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL   | MDL  | DF  | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|-------|------|-----|----------------|----------------|-----------|------|
| <b>6020 MET ICPMS</b>                                     |         |       |       |      |     |                |                |           |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B |         |       |       |      |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |      |     |                |                |           |      |
| Cobalt  | 1720    | ug/kg | 506   | 506  | 1   | 06/24/20 09:22 | 06/25/20 14:22 | 7440-48-4 |      |
| Selenium  | 228     | ug/kg | 203   | 203  | 1   | 06/24/20 09:22 | 06/25/20 14:22 | 7782-49-2 |      |
| Silver  | <101    | ug/kg | 101   | 101  | 1   | 06/24/20 09:22 | 06/25/20 14:22 | 7440-22-4 |      |
| Thallium  | <506    | ug/kg | 506   | 506  | 1   | 06/24/20 09:22 | 06/25/20 14:22 | 7440-28-0 |      |
| Titanium  | 228000  | ug/kg | 10100 | 2690 | 100 | 06/24/20 09:22 | 06/30/20 00:41 | 7440-32-6 | N2   |
| <b>7471 Mercury</b>                                       |         |       |       |      |     |                |                |           |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471  |         |       |       |      |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |      |     |                |                |           |      |
| Mercury   | <85.3   | ug/kg | 108   | 85.3 | 1   | 06/26/20 02:49 | 06/26/20 07:08 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                  |         |       |       |      |     |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546  |         |       |       |      |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |      |     |                |                |           |      |
| Acenaphthene  | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 83-32-9   |      |
| Acenaphthylene  | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 208-96-8  |      |
| Anthracene  | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 120-12-7  |      |
| Benzo(a)anthracene  | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 56-55-3   |      |
| Benzo(a)pyrene  | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 50-32-8   |      |
| Benzo(b)fluoranthene                                      | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 205-99-2  |      |
| Benzo(g,h,i)perylene                                      | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 191-24-2  |      |
| Benzo(k)fluoranthene                                      | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 207-08-9  |      |
| 4-Bromophenylphenyl ether                                 | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 101-55-3  |      |
| Butylbenzylphthalate                                      | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 85-68-7   |      |
| Carbazole   | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                   | <292    | ug/kg | 344   | 292  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                                | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                  | <167    | ug/kg | 344   | 167  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                              | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 108-60-1  |      |
| 2-Chloronaphthalene                                       | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 91-58-7   |      |
| 2-Chlorophenol  | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                                | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 7005-72-3 |      |
| Chrysene  | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                     | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 53-70-3   |      |
| Dibenzofuran  | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 132-64-9  |      |
| 2,4-Dichlorophenol  | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 120-83-2  |      |
| Diethylphthalate  | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 84-66-2   |      |
| 2,4-Dimethylphenol  | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 105-67-9  |      |
| Dimethylphthalate   | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 131-11-3  |      |
| Di-n-butylphthalate                                       | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                                | <864    | ug/kg | 864   | 864  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 534-52-1  |      |
| 2,4-Dinitrophenol   | <1670   | ug/kg | 1670  | 1670 | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 51-28-5   |      |
| 2,4-Dinitrotoluene  | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 121-14-2  |      |
| 2,6-Dinitrotoluene  | <92.2   | ug/kg | 344   | 92.2 | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 606-20-2  |      |
| Di-n-octylphthalate                                       | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                     | <1670   | ug/kg | 1670  | 1670 | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 122-66-7  |      |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-123 (4-5)**      **Lab ID: 50260268002**      Collected: 06/15/20 13:15      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                    |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| bis(2-Ethylhexyl)phthalate                                  | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 117-81-7  |      |
| Fluoranthene  | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 206-44-0  |      |
| Fluorene  | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                    | <100    | ug/kg | 344    | 100  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 87-68-3   |      |
| Hexachlorobenzene   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                   | <1040   | ug/kg | 1040   | 1040 | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 77-47-4   |      |
| Hexachloroethane  | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                      | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 193-39-5  |      |
| Isophorone  | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 78-59-1   |      |
| 2-Methylnaphthalene   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                    | <1040   | ug/kg | 1040   | 1040 | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                                | <1040   | ug/kg | 1040   | 1040 | 1  | 06/23/20 12:30 | 06/24/20 12:05 |           |      |
| Naphthalene   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 91-20-3   |      |
| 2-Nitroaniline  | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 88-74-4   |      |
| 3-Nitroaniline  | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 99-09-2   |      |
| 4-Nitroaniline  | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 100-01-6  |      |
| Nitrobenzene  | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 98-95-3   |      |
| 2-Nitrophenol   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 88-75-5   |      |
| 4-Nitrophenol   | <1670   | ug/kg | 1670   | 1670 | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 100-02-7  |      |
| N-Nitrosodimethylamine                                      | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                                  | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                      | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 86-30-6   |      |
| Pentachlorophenol   | <1530   | ug/kg | 1670   | 1530 | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 87-86-5   |      |
| Phenanthrene  | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 85-01-8   |      |
| Phenol  | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 108-95-2  |      |
| Pyrene  | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                      | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                       | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                       | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 88-06-2   |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)   | 57      | %     | 26-96  |      | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 4165-60-0 |      |
| Phenol-d5 (S)   | 82      | %     | 32-93  |      | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 4165-62-2 |      |
| 2-Fluorophenol (S)  | 85      | %     | 24-95  |      | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                    | 74      | %     | 20-109 |      | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 118-79-6  |      |
| 2-Fluorobiphenyl (S)  | 68      | %     | 36-91  |      | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 88      | %     | 27-117 |      | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                              |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                                 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| Acetone   | <957    | ug/kg | 957    | 957  | 1  |                | 06/24/20 04:10 | 67-64-1   |      |
| Acrylonitrile   | <95.7   | ug/kg | 95.7   | 95.7 | 1  |                | 06/24/20 04:10 | 107-13-1  |      |
| tert-Amylmethyl ether                                       | <239    | ug/kg | 239    | 239  | 1  |                | 06/24/20 04:10 | 994-05-8  | N2   |
| Benzene   | <47.9   | ug/kg | 47.9   | 47.9 | 1  |                | 06/24/20 04:10 | 71-43-2   |      |
| Bromobenzene  | <95.7   | ug/kg | 95.7   | 95.7 | 1  |                | 06/24/20 04:10 | 108-86-1  |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

Sample: MW-123 (4-5) Lab ID: 50260268002 Collected: 06/15/20 13:15 Received: 06/18/20 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Bromochloromethane             | <23.9   | ug/kg  | 47.9 | 23.9 | 1  |          | 06/24/20 04:10 | 74-97-5    |      |
| Bromodichloromethane           | <95.7   | ug/kg  | 95.7 | 95.7 | 1  |          | 06/24/20 04:10 | 75-27-4    |      |
| Bromoform                      | <95.7   | ug/kg  | 95.7 | 95.7 | 1  |          | 06/24/20 04:10 | 75-25-2    |      |
| Bromomethane                   | <191    | ug/kg  | 191  | 191  | 1  |          | 06/24/20 04:10 | 74-83-9    |      |
| 2-Butanone (MEK)               | <718    | ug/kg  | 718  | 718  | 1  |          | 06/24/20 04:10 | 78-93-3    |      |
| tert-Butyl Alcohol             | <2390   | ug/kg  | 2390 | 2390 | 1  |          | 06/24/20 04:10 | 75-65-0    |      |
| n-Butylbenzene                 | <47.9   | ug/kg  | 47.9 | 47.9 | 1  |          | 06/24/20 04:10 | 104-51-8   |      |
| sec-Butylbenzene               | <47.9   | ug/kg  | 47.9 | 47.9 | 1  |          | 06/24/20 04:10 | 135-98-8   |      |
| tert-Butylbenzene              | <47.9   | ug/kg  | 47.9 | 47.9 | 1  |          | 06/24/20 04:10 | 98-06-6    |      |
| Carbon disulfide               | <239    | ug/kg  | 239  | 239  | 1  |          | 06/24/20 04:10 | 75-15-0    |      |
| Carbon tetrachloride           | <47.9   | ug/kg  | 47.9 | 47.9 | 1  |          | 06/24/20 04:10 | 56-23-5    |      |
| Chlorobenzene                  | <47.9   | ug/kg  | 47.9 | 47.9 | 1  |          | 06/24/20 04:10 | 108-90-7   |      |
| Chloroethane                   | <239    | ug/kg  | 239  | 239  | 1  |          | 06/24/20 04:10 | 75-00-3    |      |
| Chloroform                     | <47.9   | ug/kg  | 47.9 | 47.9 | 1  |          | 06/24/20 04:10 | 67-66-3    |      |
| Chloromethane                  | <239    | ug/kg  | 239  | 239  | 1  |          | 06/24/20 04:10 | 74-87-3    |      |
| Cyclohexane                    | <479    | ug/kg  | 479  | 479  | 1  |          | 06/24/20 04:10 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <47.9   | ug/kg  | 47.9 | 47.9 | 1  |          | 06/24/20 04:10 | 96-12-8    |      |
| Dibromochloromethane           | <95.7   | ug/kg  | 95.7 | 95.7 | 1  |          | 06/24/20 04:10 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <47.9   | ug/kg  | 47.9 | 47.9 | 1  |          | 06/24/20 04:10 | 106-93-4   |      |
| Dibromomethane                 | <239    | ug/kg  | 239  | 239  | 1  |          | 06/24/20 04:10 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <95.7   | ug/kg  | 95.7 | 95.7 | 1  |          | 06/24/20 04:10 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <95.7   | ug/kg  | 95.7 | 95.7 | 1  |          | 06/24/20 04:10 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <95.7   | ug/kg  | 95.7 | 95.7 | 1  |          | 06/24/20 04:10 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <95.7   | ug/kg  | 95.7 | 95.7 | 1  |          | 06/24/20 04:10 | 110-57-6   |      |
| Dichlorodifluoromethane        | <239    | ug/kg  | 239  | 239  | 1  |          | 06/24/20 04:10 | 75-71-8    |      |
| 1,1-Dichloroethane             | <47.9   | ug/kg  | 47.9 | 47.9 | 1  |          | 06/24/20 04:10 | 75-34-3    |      |
| 1,2-Dichloroethane             | <47.9   | ug/kg  | 47.9 | 47.9 | 1  |          | 06/24/20 04:10 | 107-06-2   |      |
| 1,1-Dichloroethene             | <47.9   | ug/kg  | 47.9 | 47.9 | 1  |          | 06/24/20 04:10 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <47.9   | ug/kg  | 47.9 | 47.9 | 1  |          | 06/24/20 04:10 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <47.9   | ug/kg  | 47.9 | 47.9 | 1  |          | 06/24/20 04:10 | 156-60-5   |      |
| 1,2-Dichloropropane            | <47.9   | ug/kg  | 47.9 | 47.9 | 1  |          | 06/24/20 04:10 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <95.7   | ug/kg  | 95.7 | 95.7 | 1  |          | 06/24/20 04:10 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <95.7   | ug/kg  | 95.7 | 95.7 | 1  |          | 06/24/20 04:10 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <191    | ug/kg  | 191  | 191  | 1  |          | 06/24/20 04:10 | 60-29-7    |      |
| Diisopropyl ether              | <239    | ug/kg  | 239  | 239  | 1  |          | 06/24/20 04:10 | 108-20-3   | N2   |
| Ethylbenzene                   | <47.9   | ug/kg  | 47.9 | 47.9 | 1  |          | 06/24/20 04:10 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <239    | ug/kg  | 239  | 239  | 1  |          | 06/24/20 04:10 | 637-92-3   | N2   |
| Hexachloroethane               | <287    | ug/kg  | 287  | 287  | 1  |          | 06/24/20 04:10 | 67-72-1    | N2   |
| 2-Hexanone                     | <2390   | ug/kg  | 2390 | 2390 | 1  |          | 06/24/20 04:10 | 591-78-6   |      |
| Iodomethane                    | <95.7   | ug/kg  | 95.7 | 95.7 | 1  |          | 06/24/20 04:10 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <239    | ug/kg  | 239  | 239  | 1  |          | 06/24/20 04:10 | 98-82-8    |      |
| p-Isopropyltoluene             | <23.9   | ug/kg  | 47.9 | 23.9 | 1  |          | 06/24/20 04:10 | 99-87-6    |      |
| Methylene Chloride             | <95.7   | ug/kg  | 95.7 | 95.7 | 1  |          | 06/24/20 04:10 | 75-09-2    |      |
| 2-Methylnaphthalene            | <316    | ug/kg  | 316  | 316  | 1  |          | 06/24/20 04:10 | 91-57-6    |      |

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-123 (4-5)**      **Lab ID: 50260268002**      Collected: 06/15/20 13:15      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|---------|--|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| 4-Methyl-2-pentanone (MIBK)    | <2390   | ug/kg  | 2390   | 2390 | 1  |          | 06/24/20 04:10 | 108-10-1    |      |
| Methyl-tert-butyl ether        | <239    | ug/kg  | 239    | 239  | 1  |          | 06/24/20 04:10 | 1634-04-4   |      |
| Naphthalene                    | <316    | ug/kg  | 316    | 316  | 1  |          | 06/24/20 04:10 | 91-20-3     |      |
| n-Propylbenzene                | <95.7   | ug/kg  | 95.7   | 95.7 | 1  |          | 06/24/20 04:10 | 103-65-1    |      |
| Styrene                        | <47.9   | ug/kg  | 47.9   | 47.9 | 1  |          | 06/24/20 04:10 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane      | <95.7   | ug/kg  | 95.7   | 95.7 | 1  |          | 06/24/20 04:10 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane      | <47.9   | ug/kg  | 47.9   | 47.9 | 1  |          | 06/24/20 04:10 | 79-34-5     |      |
| Tetrachloroethene              | <47.9   | ug/kg  | 47.9   | 47.9 | 1  |          | 06/24/20 04:10 | 127-18-4    |      |
| Tetrahydrofuran                | <957    | ug/kg  | 957    | 957  | 1  |          | 06/24/20 04:10 | 109-99-9    | N2   |
| Toluene                        | <95.7   | ug/kg  | 95.7   | 95.7 | 1  |          | 06/24/20 04:10 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene         | <239    | ug/kg  | 239    | 239  | 1  |          | 06/24/20 04:10 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene         | <239    | ug/kg  | 239    | 239  | 1  |          | 06/24/20 04:10 | 120-82-1    |      |
| 1,1,1-Trichloroethane          | <47.9   | ug/kg  | 47.9   | 47.9 | 1  |          | 06/24/20 04:10 | 71-55-6     |      |
| 1,1,2-Trichloroethane          | <47.9   | ug/kg  | 47.9   | 47.9 | 1  |          | 06/24/20 04:10 | 79-00-5     |      |
| Trichloroethene                | <47.9   | ug/kg  | 47.9   | 47.9 | 1  |          | 06/24/20 04:10 | 79-01-6     |      |
| Trichlorofluoromethane         | <95.7   | ug/kg  | 95.7   | 95.7 | 1  |          | 06/24/20 04:10 | 75-69-4     |      |
| 1,2,3-Trichloropropane         | <95.7   | ug/kg  | 95.7   | 95.7 | 1  |          | 06/24/20 04:10 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene         | <239    | ug/kg  | 239    | 239  | 1  |          | 06/24/20 04:10 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene         | <95.7   | ug/kg  | 95.7   | 95.7 | 1  |          | 06/24/20 04:10 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | <95.7   | ug/kg  | 95.7   | 95.7 | 1  |          | 06/24/20 04:10 | 108-67-8    |      |
| Vinyl chloride                 | <38.3   | ug/kg  | 38.3   | 38.3 | 1  |          | 06/24/20 04:10 | 75-01-4     |      |
| m&p-Xylene                     | <23.9   | ug/kg  | 47.9   | 23.9 | 1  |          | 06/24/20 04:10 | 179601-23-1 |      |
| o-Xylene                       | <23.9   | ug/kg  | 47.9   | 23.9 | 1  |          | 06/24/20 04:10 | 95-47-6     |      |
| <b>Surrogates</b>              |         |  |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)       | 103     | %  | 62-137 |      | 1  |          | 06/24/20 04:10 | 1868-53-7   |      |
| Toluene-d8 (S)                 | 99      | %  | 64-139 |      | 1  |          | 06/24/20 04:10 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)       | 103     | %  | 60-142 |      | 1  |          | 06/24/20 04:10 | 460-00-4    |      |

**Percent Moisture**

Analytical Method: SM 2540G  
Pace Analytical Services - Indianapolis

|                  |     |   |      |      |   |  |                |  |  |
|------------------|-----|---|------|------|---|--|----------------|--|--|
| Percent Moisture | 6.5 | % | 0.10 | 0.10 | 1 |  | 06/23/20 13:45 |  |  |
|------------------|-----|---|------|------|---|--|----------------|--|--|

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-124 (4-5)**      **Lab ID: 50260268003**      Collected: 06/15/20 12:40      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL    | DF  | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|--------|-----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                     |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| n-Butanol  | <4700   | ug/kg | 4700   | 4700   | 1   |                | 06/22/20 16:15 | 71-36-3   |      |
| Ethanol  | <2670   | ug/kg | 2670   | 2670   | 1   |                | 06/22/20 16:15 | 64-17-5   |      |
| Methanol   | <4700   | ug/kg | 4700   | 4700   | 1   |                | 06/22/20 16:15 | 67-56-1   |      |
| <b>6010 MET ICP</b>  |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050  |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| Antimony   | <957    | ug/kg | 957    | 957    | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7440-36-0 |      |
| Arsenic  | <1910   | ug/kg | 1910   | 1910   | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7440-38-2 |      |
| Barium   | 8540    | ug/kg | 957    | 957    | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7440-39-3 |      |
| Beryllium  | <478    | ug/kg | 478    | 478    | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7440-41-7 |      |
| Boron  | <7650   | ug/kg | 7650   | 7650   | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7440-42-8 |      |
| Calcium  | 628000  | ug/kg | 47800  | 6340   | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7440-70-2 |      |
| Chromium   | 5880    | ug/kg | 1910   | 1910   | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7440-47-3 |      |
| Copper   | 1580    | ug/kg | 957    | 957    | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7440-50-8 |      |
| Iron   | 3940000 | ug/kg | 23900  | 7270   | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7439-89-6 |      |
| Lead   | <9570   | ug/kg | 9570   | 9570   | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7439-92-1 |      |
| Magnesium  | 739000  | ug/kg | 23900  | 3830   | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7439-95-4 |      |
| Manganese  | 27300   | ug/kg | 957    | 957    | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7439-96-5 |      |
| Molybdenum   | <957    | ug/kg | 957    | 957    | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7439-98-7 |      |
| Nickel   | 3880    | ug/kg | 957    | 957    | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7440-02-0 |      |
| Potassium  | 148000  | ug/kg | 47800  | 4680   | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7440-09-7 |      |
| Sodium   | 23200J  | ug/kg | 23900  | 13000  | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7440-23-5 |      |
| Strontium  | <4780   | ug/kg | 4780   | 4780   | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7440-24-6 |      |
| Vanadium   | 8010    | ug/kg | 957    | 957    | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7440-62-2 |      |
| Zinc   | 8190    | ug/kg | 957    | 957    | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7440-66-6 |      |
| <b>6020 MET ICPMS</b>  |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| Aluminum   | 3620000 | ug/kg | 102000 | 102000 | 100 | 06/24/20 09:22 | 06/30/20 00:45 | 7429-90-5 |      |
| Cadmium  | <203    | ug/kg | 203    | 203    | 1   | 06/24/20 09:22 | 06/25/20 14:31 | 7440-43-9 |      |
| Cobalt   | 1350    | ug/kg | 509    | 509    | 1   | 06/24/20 09:22 | 06/25/20 14:31 | 7440-48-4 |      |
| Selenium   | <203    | ug/kg | 203    | 203    | 1   | 06/24/20 09:22 | 06/25/20 14:31 | 7782-49-2 |      |
| Silver   | <102    | ug/kg | 102    | 102    | 1   | 06/24/20 09:22 | 06/25/20 14:31 | 7440-22-4 |      |
| Thallium   | <509    | ug/kg | 509    | 509    | 1   | 06/24/20 09:22 | 06/25/20 14:31 | 7440-28-0 |      |
| Titanium   | 220000  | ug/kg | 10200  | 2710   | 100 | 06/24/20 09:22 | 06/30/20 00:45 | 7440-32-6 | N2   |
| <b>7471 Mercury</b>  |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 7471      Preparation Method: EPA 7471  |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| Mercury  | <86.7   | ug/kg | 110    | 86.7   | 1   | 06/26/20 02:49 | 06/26/20 07:16 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                       |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 8270      Preparation Method: EPA 3546  |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| Acenaphthene   | <350    | ug/kg | 350    | 350    | 1   | 06/23/20 12:30 | 06/24/20 12:22 | 83-32-9   |      |
| Acenaphthylene   | <350    | ug/kg | 350    | 350    | 1   | 06/23/20 12:30 | 06/24/20 12:22 | 208-96-8  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

Sample: MW-124 (4-5) Lab ID: 50260268003 Collected: 06/15/20 12:40 Received: 06/18/20 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters   | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                 |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |      |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |      |      |    |                |                |           |      |
| Anthracene   | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 120-12-7  |      |
| Benzo(a)anthracene                                       | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 56-55-3   |      |
| Benzo(a)pyrene   | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 50-32-8   |      |
| Benzo(b)fluoranthene                                     | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 205-99-2  |      |
| Benzo(g,h,i)perylene                                     | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 191-24-2  |      |
| Benzo(k)fluoranthene                                     | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 207-08-9  |      |
| 4-Bromophenylphenyl ether                                | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 101-55-3  |      |
| Butylbenzylphthalate                                     | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 85-68-7   |      |
| Carbazole  | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                  | <297    | ug/kg | 350  | 297  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                               | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                 | <170    | ug/kg | 350  | 170  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                             | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 108-60-1  |      |
| 2-Chloronaphthalene                                      | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 91-58-7   |      |
| 2-Chlorophenol   | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                               | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 7005-72-3 |      |
| Chrysene   | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                    | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 53-70-3   |      |
| Dibenzofuran   | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 132-64-9  |      |
| 2,4-Dichlorophenol                                       | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 120-83-2  |      |
| Diethylphthalate   | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 84-66-2   |      |
| 2,4-Dimethylphenol                                       | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 105-67-9  |      |
| Dimethylphthalate  | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 131-11-3  |      |
| Di-n-butylphthalate                                      | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                               | <880    | ug/kg | 880  | 880  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 534-52-1  |      |
| 2,4-Dinitrophenol  | <1700   | ug/kg | 1700 | 1700 | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 51-28-5   |      |
| 2,4-Dinitrotoluene                                       | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 121-14-2  |      |
| 2,6-Dinitrotoluene                                       | <93.9   | ug/kg | 350  | 93.9 | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 606-20-2  |      |
| Di-n-octylphthalate                                      | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                    | <1700   | ug/kg | 1700 | 1700 | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate                               | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 117-81-7  |      |
| Fluoranthene   | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 206-44-0  |      |
| Fluorene   | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                 | <102    | ug/kg | 350  | 102  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 87-68-3   |      |
| Hexachlorobenzene  | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                | <1060   | ug/kg | 1060 | 1060 | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 77-47-4   |      |
| Hexachloroethane   | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                   | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 193-39-5  |      |
| Isophorone   | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 78-59-1   |      |
| 2-Methylnaphthalene                                      | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                 | <1060   | ug/kg | 1060 | 1060 | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                             | <1060   | ug/kg | 1060 | 1060 | 1  | 06/23/20 12:30 | 06/24/20 12:22 |           |      |
| Naphthalene  | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 91-20-3   |      |
| 2-Nitroaniline   | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 88-74-4   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

**Sample: MW-124 (4-5)**      **Lab ID: 50260268003**      Collected: 06/15/20 12:40      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                    |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| 3-Nitroaniline  | <350    | ug/kg | 350    | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 99-09-2   |      |
| 4-Nitroaniline  | <350    | ug/kg | 350    | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 100-01-6  |      |
| Nitrobenzene  | <350    | ug/kg | 350    | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 98-95-3   |      |
| 2-Nitrophenol   | <350    | ug/kg | 350    | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 88-75-5   |      |
| 4-Nitrophenol   | <1700   | ug/kg | 1700   | 1700 | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 100-02-7  |      |
| N-Nitrosodimethylamine                                      | <350    | ug/kg | 350    | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                                  | <350    | ug/kg | 350    | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                      | <350    | ug/kg | 350    | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 86-30-6   |      |
| Pentachlorophenol   | <1560   | ug/kg | 1700   | 1560 | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 87-86-5   |      |
| Phenanthrene  | <350    | ug/kg | 350    | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 85-01-8   |      |
| Phenol  | <350    | ug/kg | 350    | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 108-95-2  |      |
| Pyrene  | <350    | ug/kg | 350    | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                      | <350    | ug/kg | 350    | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                       | <350    | ug/kg | 350    | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                       | <350    | ug/kg | 350    | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 88-06-2   |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)   | 73      | %     | 26-96  |      | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 4165-60-0 |      |
| Phenol-d5 (S)   | 81      | %     | 32-93  |      | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 4165-62-2 |      |
| 2-Fluorophenol (S)  | 83      | %     | 24-95  |      | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                    | 78      | %     | 20-109 |      | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 118-79-6  |      |
| 2-Fluorobiphenyl (S)  | 79      | %     | 36-91  |      | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 93      | %     | 27-117 |      | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                              |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                                 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| Acetone   | <986    | ug/kg | 986    | 986  | 1  |                | 06/24/20 04:43 | 67-64-1   |      |
| Acrylonitrile   | <98.6   | ug/kg | 98.6   | 98.6 | 1  |                | 06/24/20 04:43 | 107-13-1  |      |
| tert-Amylmethyl ether                                       | <247    | ug/kg | 247    | 247  | 1  |                | 06/24/20 04:43 | 994-05-8  | N2   |
| Benzene   | <49.3   | ug/kg | 49.3   | 49.3 | 1  |                | 06/24/20 04:43 | 71-43-2   |      |
| Bromobenzene  | <98.6   | ug/kg | 98.6   | 98.6 | 1  |                | 06/24/20 04:43 | 108-86-1  |      |
| Bromochloromethane  | <24.7   | ug/kg | 49.3   | 24.7 | 1  |                | 06/24/20 04:43 | 74-97-5   |      |
| Bromodichloromethane  | <98.6   | ug/kg | 98.6   | 98.6 | 1  |                | 06/24/20 04:43 | 75-27-4   |      |
| Bromoform   | <98.6   | ug/kg | 98.6   | 98.6 | 1  |                | 06/24/20 04:43 | 75-25-2   |      |
| Bromomethane  | <197    | ug/kg | 197    | 197  | 1  |                | 06/24/20 04:43 | 74-83-9   |      |
| 2-Butanone (MEK)  | <740    | ug/kg | 740    | 740  | 1  |                | 06/24/20 04:43 | 78-93-3   |      |
| tert-Butyl Alcohol  | <2470   | ug/kg | 2470   | 2470 | 1  |                | 06/24/20 04:43 | 75-65-0   |      |
| n-Butylbenzene  | <49.3   | ug/kg | 49.3   | 49.3 | 1  |                | 06/24/20 04:43 | 104-51-8  |      |
| sec-Butylbenzene  | <49.3   | ug/kg | 49.3   | 49.3 | 1  |                | 06/24/20 04:43 | 135-98-8  |      |
| tert-Butylbenzene   | <49.3   | ug/kg | 49.3   | 49.3 | 1  |                | 06/24/20 04:43 | 98-06-6   |      |
| Carbon disulfide  | <247    | ug/kg | 247    | 247  | 1  |                | 06/24/20 04:43 | 75-15-0   |      |
| Carbon tetrachloride  | <49.3   | ug/kg | 49.3   | 49.3 | 1  |                | 06/24/20 04:43 | 56-23-5   |      |
| Chlorobenzene   | <49.3   | ug/kg | 49.3   | 49.3 | 1  |                | 06/24/20 04:43 | 108-90-7  |      |
| Chloroethane  | <247    | ug/kg | 247    | 247  | 1  |                | 06/24/20 04:43 | 75-00-3   |      |
| Chloroform  | <49.3   | ug/kg | 49.3   | 49.3 | 1  |                | 06/24/20 04:43 | 67-66-3   |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-124 (4-5)**      **Lab ID: 50260268003**      Collected: 06/15/20 12:40      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Chloromethane                  | <247    | ug/kg  | 247  | 247  | 1  |          | 06/24/20 04:43 | 74-87-3    |      |
| Cyclohexane                    | <493    | ug/kg  | 493  | 493  | 1  |          | 06/24/20 04:43 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <49.3   | ug/kg  | 49.3 | 49.3 | 1  |          | 06/24/20 04:43 | 96-12-8    |      |
| Dibromochloromethane           | <98.6   | ug/kg  | 98.6 | 98.6 | 1  |          | 06/24/20 04:43 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <49.3   | ug/kg  | 49.3 | 49.3 | 1  |          | 06/24/20 04:43 | 106-93-4   |      |
| Dibromomethane                 | <247    | ug/kg  | 247  | 247  | 1  |          | 06/24/20 04:43 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <98.6   | ug/kg  | 98.6 | 98.6 | 1  |          | 06/24/20 04:43 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <98.6   | ug/kg  | 98.6 | 98.6 | 1  |          | 06/24/20 04:43 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <98.6   | ug/kg  | 98.6 | 98.6 | 1  |          | 06/24/20 04:43 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <98.6   | ug/kg  | 98.6 | 98.6 | 1  |          | 06/24/20 04:43 | 110-57-6   |      |
| Dichlorodifluoromethane        | <247    | ug/kg  | 247  | 247  | 1  |          | 06/24/20 04:43 | 75-71-8    |      |
| 1,1-Dichloroethane             | <49.3   | ug/kg  | 49.3 | 49.3 | 1  |          | 06/24/20 04:43 | 75-34-3    |      |
| 1,2-Dichloroethane             | <49.3   | ug/kg  | 49.3 | 49.3 | 1  |          | 06/24/20 04:43 | 107-06-2   |      |
| 1,1-Dichloroethene             | <49.3   | ug/kg  | 49.3 | 49.3 | 1  |          | 06/24/20 04:43 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <49.3   | ug/kg  | 49.3 | 49.3 | 1  |          | 06/24/20 04:43 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <49.3   | ug/kg  | 49.3 | 49.3 | 1  |          | 06/24/20 04:43 | 156-60-5   |      |
| 1,2-Dichloropropane            | <49.3   | ug/kg  | 49.3 | 49.3 | 1  |          | 06/24/20 04:43 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <98.6   | ug/kg  | 98.6 | 98.6 | 1  |          | 06/24/20 04:43 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <98.6   | ug/kg  | 98.6 | 98.6 | 1  |          | 06/24/20 04:43 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <197    | ug/kg  | 197  | 197  | 1  |          | 06/24/20 04:43 | 60-29-7    |      |
| Diisopropyl ether              | <247    | ug/kg  | 247  | 247  | 1  |          | 06/24/20 04:43 | 108-20-3   | N2   |
| Ethylbenzene                   | <49.3   | ug/kg  | 49.3 | 49.3 | 1  |          | 06/24/20 04:43 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <247    | ug/kg  | 247  | 247  | 1  |          | 06/24/20 04:43 | 637-92-3   | N2   |
| Hexachloroethane               | <296    | ug/kg  | 296  | 296  | 1  |          | 06/24/20 04:43 | 67-72-1    | N2   |
| 2-Hexanone                     | <2470   | ug/kg  | 2470 | 2470 | 1  |          | 06/24/20 04:43 | 591-78-6   |      |
| Iodomethane                    | <98.6   | ug/kg  | 98.6 | 98.6 | 1  |          | 06/24/20 04:43 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <247    | ug/kg  | 247  | 247  | 1  |          | 06/24/20 04:43 | 98-82-8    |      |
| p-Isopropyltoluene             | <24.7   | ug/kg  | 49.3 | 24.7 | 1  |          | 06/24/20 04:43 | 99-87-6    |      |
| Methylene Chloride             | <98.6   | ug/kg  | 98.6 | 98.6 | 1  |          | 06/24/20 04:43 | 75-09-2    |      |
| 2-Methylnaphthalene            | <326    | ug/kg  | 326  | 326  | 1  |          | 06/24/20 04:43 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)    | <2470   | ug/kg  | 2470 | 2470 | 1  |          | 06/24/20 04:43 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <247    | ug/kg  | 247  | 247  | 1  |          | 06/24/20 04:43 | 1634-04-4  |      |
| Naphthalene                    | <326    | ug/kg  | 326  | 326  | 1  |          | 06/24/20 04:43 | 91-20-3    |      |
| n-Propylbenzene                | <98.6   | ug/kg  | 98.6 | 98.6 | 1  |          | 06/24/20 04:43 | 103-65-1   |      |
| Styrene                        | <49.3   | ug/kg  | 49.3 | 49.3 | 1  |          | 06/24/20 04:43 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <98.6   | ug/kg  | 98.6 | 98.6 | 1  |          | 06/24/20 04:43 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane      | <49.3   | ug/kg  | 49.3 | 49.3 | 1  |          | 06/24/20 04:43 | 79-34-5    |      |
| Tetrachloroethene              | <49.3   | ug/kg  | 49.3 | 49.3 | 1  |          | 06/24/20 04:43 | 127-18-4   |      |
| Tetrahydrofuran                | <98.6   | ug/kg  | 98.6 | 98.6 | 1  |          | 06/24/20 04:43 | 109-99-9   | N2   |
| Toluene                        | <98.6   | ug/kg  | 98.6 | 98.6 | 1  |          | 06/24/20 04:43 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene         | <247    | ug/kg  | 247  | 247  | 1  |          | 06/24/20 04:43 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene         | <247    | ug/kg  | 247  | 247  | 1  |          | 06/24/20 04:43 | 120-82-1   |      |
| 1,1,1-Trichloroethane          | <49.3   | ug/kg  | 49.3 | 49.3 | 1  |          | 06/24/20 04:43 | 71-55-6    |      |
| 1,1,2-Trichloroethane          | <49.3   | ug/kg  | 49.3 | 49.3 | 1  |          | 06/24/20 04:43 | 79-00-5    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-124 (4-5)**      **Lab ID: 50260268003**      Collected: 06/15/20 12:40      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|---------|--|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Trichloroethene                | <49.3   | ug/kg  | 49.3   | 49.3 | 1  |          | 06/24/20 04:43 | 79-01-6     |      |
| Trichlorofluoromethane         | <98.6   | ug/kg  | 98.6   | 98.6 | 1  |          | 06/24/20 04:43 | 75-69-4     |      |
| 1,2,3-Trichloropropane         | <98.6   | ug/kg  | 98.6   | 98.6 | 1  |          | 06/24/20 04:43 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene         | <247    | ug/kg  | 247    | 247  | 1  |          | 06/24/20 04:43 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene         | <98.6   | ug/kg  | 98.6   | 98.6 | 1  |          | 06/24/20 04:43 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | <98.6   | ug/kg  | 98.6   | 98.6 | 1  |          | 06/24/20 04:43 | 108-67-8    |      |
| Vinyl chloride                 | <39.5   | ug/kg  | 39.5   | 39.5 | 1  |          | 06/24/20 04:43 | 75-01-4     |      |
| m&p-Xylene                     | <24.7   | ug/kg  | 49.3   | 24.7 | 1  |          | 06/24/20 04:43 | 179601-23-1 |      |
| o-Xylene                       | <24.7   | ug/kg  | 49.3   | 24.7 | 1  |          | 06/24/20 04:43 | 95-47-6     |      |
| <b>Surrogates</b>              |         |  |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)       | 102     | %  | 62-137 |      | 1  |          | 06/24/20 04:43 | 1868-53-7   |      |
| Toluene-d8 (S)                 | 97      | %  | 64-139 |      | 1  |          | 06/24/20 04:43 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)       | 102     | %  | 60-142 |      | 1  |          | 06/24/20 04:43 | 460-00-4    |      |
| <b>Percent Moisture</b>        |         | Analytical Method: SM 2540G<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Percent Moisture               | 6.3     | %  | 0.10   | 0.10 | 1  |          | 06/23/20 13:45 |             |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-125 (4-5)**      **Lab ID: 50260268004**      Collected: 06/16/20 11:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results  | Units | PQL    | MDL    | DF  | Prepared       | Analyzed       | CAS No.    | Qual |
|--|----------|-------|--------|--------|-----|----------------|----------------|------------|------|
| <b>8015M Alcohols in solids</b>                                |          |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                     |          |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |        |     |                |                |            |      |
| n-Butanol  | <4670    | ug/kg | 4670   | 4670   | 1   |                | 06/22/20 16:25 | 71-36-3    |      |
| Ethanol  | <2650    | ug/kg | 2650   | 2650   | 1   |                | 06/22/20 16:25 | 64-17-5    |      |
| Methanol   | <4670    | ug/kg | 4670   | 4670   | 1   |                | 06/22/20 16:25 | 67-56-1    |      |
| <b>8082 GCS PCB Solids</b>                                     |          |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 8082      Preparation Method: EPA 3546  |          |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |        |     |                |                |            |      |
| PCB-1016 (Aroclor 1016)  | <350     | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 21:22 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)  | <350     | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 21:22 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)  | <350     | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 21:22 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)  | <350     | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 21:22 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)  | <350     | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 21:22 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)  | <350     | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 21:22 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)  | <350     | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 21:22 | 11096-82-5 |      |
| PCB-1262 (Aroclor 1262)  | <350     | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 21:22 | 37324-23-5 | N2   |
| PCB-1268 (Aroclor 1268)  | <350     | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 21:22 | 11100-14-4 | N2   |
| <b>Surrogates</b>  |          |       |        |        |     |                |                |            |      |
| Tetrachloro-m-xylene (S)                                       | 69       | %     | 25-123 |        | 1   | 06/24/20 21:50 | 06/25/20 21:22 | 877-09-8   |      |
| <b>6010 MET ICP</b>  |          |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050  |          |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |        |     |                |                |            |      |
| Antimony   | <1030    | ug/kg | 1030   | 1030   | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7440-36-0  |      |
| Arsenic  | 2940     | ug/kg | 2070   | 2070   | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7440-38-2  |      |
| Barium   | 33400    | ug/kg | 1030   | 1030   | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7440-39-3  |      |
| Beryllium  | <517     | ug/kg | 517    | 517    | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7440-41-7  |      |
| Boron  | <8260    | ug/kg | 8260   | 8260   | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7440-42-8  |      |
| Calcium  | 28700000 | ug/kg | 258000 | 34200  | 5   | 06/26/20 14:44 | 06/29/20 12:43 | 7440-70-2  |      |
| Chromium   | 11100    | ug/kg | 2070   | 2070   | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7440-47-3  |      |
| Copper   | 9020     | ug/kg | 1030   | 1030   | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7440-50-8  |      |
| Iron   | 5840000  | ug/kg | 25800  | 7850   | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7439-89-6  |      |
| Lead   | 33800    | ug/kg | 10300  | 10300  | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7439-92-1  |      |
| Magnesium  | 4260000  | ug/kg | 25800  | 4130   | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7439-95-4  |      |
| Manganese  | 122000   | ug/kg | 1030   | 1030   | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7439-96-5  |      |
| Molybdenum   | <1030    | ug/kg | 1030   | 1030   | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7439-98-7  |      |
| Nickel   | 6660     | ug/kg | 1030   | 1030   | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7440-02-0  |      |
| Potassium  | 337000   | ug/kg | 51700  | 5050   | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7440-09-7  |      |
| Sodium   | 65200    | ug/kg | 25800  | 14100  | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7440-23-5  |      |
| Strontium  | 29300    | ug/kg | 5170   | 5170   | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7440-24-6  |      |
| Vanadium   | 13200    | ug/kg | 1030   | 1030   | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7440-62-2  |      |
| Zinc   | 50800    | ug/kg | 1030   | 1030   | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7440-66-6  |      |
| <b>6020 MET ICPMS</b>  |          |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B |          |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |        |     |                |                |            |      |
| Aluminum   | 5130000  | ug/kg | 102000 | 102000 | 100 | 06/24/20 09:22 | 06/30/20 00:50 | 7429-90-5  |      |
| Cadmium  | 290      | ug/kg | 205    | 205    | 1   | 06/24/20 09:22 | 06/25/20 14:40 | 7440-43-9  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

Sample: MW-125 (4-5) Lab ID: 50260268004 Collected: 06/16/20 11:00 Received: 06/18/20 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters  | Results | Units | PQL   | MDL  | DF  | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|-------|------|-----|----------------|----------------|-----------|------|
| <b>6020 MET ICPMS</b>                                     |         |       |       |      |     |                |                |           |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B |         |       |       |      |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |      |     |                |                |           |      |
| Cobalt  | 2270    | ug/kg | 512   | 512  | 1   | 06/24/20 09:22 | 06/25/20 14:40 | 7440-48-4 |      |
| Selenium  | <1020   | ug/kg | 1020  | 1020 | 5   | 06/24/20 09:22 | 06/30/20 02:36 | 7782-49-2 | D3   |
| Silver  | 1840    | ug/kg | 102   | 102  | 1   | 06/24/20 09:22 | 06/25/20 14:40 | 7440-22-4 |      |
| Thallium  | <512    | ug/kg | 512   | 512  | 1   | 06/24/20 09:22 | 06/25/20 14:40 | 7440-28-0 |      |
| Titanium  | 284000  | ug/kg | 10200 | 2730 | 100 | 06/24/20 09:22 | 06/30/20 00:50 | 7440-32-6 | N2   |
| <b>7471 Mercury</b>                                       |         |       |       |      |     |                |                |           |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471  |         |       |       |      |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |      |     |                |                |           |      |
| Mercury   | 940     | ug/kg | 103   | 81.6 | 1   | 06/26/20 02:49 | 06/26/20 07:18 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                  |         |       |       |      |     |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546  |         |       |       |      |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |      |     |                |                |           |      |
| Acenaphthene  | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 83-32-9   |      |
| Acenaphthylene  | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 208-96-8  |      |
| Anthracene  | 549     | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 120-12-7  |      |
| Benzo(a)anthracene  | 2190    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 56-55-3   |      |
| Benzo(a)pyrene  | 1860    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 50-32-8   |      |
| Benzo(b)fluoranthene                                      | 2650    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 205-99-2  |      |
| Benzo(g,h,i)perylene                                      | 1040    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 191-24-2  |      |
| Benzo(k)fluoranthene                                      | 1000    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 207-08-9  |      |
| 4-Bromophenylphenyl ether                                 | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 101-55-3  |      |
| Butylbenzylphthalate                                      | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 85-68-7   |      |
| Carbazole   | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                   | <294    | ug/kg | 347   | 294  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                                | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                  | <168    | ug/kg | 347   | 168  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                              | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 108-60-1  |      |
| 2-Chloronaphthalene                                       | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 91-58-7   |      |
| 2-Chlorophenol  | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                                | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 7005-72-3 |      |
| Chrysene  | 2070    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                     | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 53-70-3   |      |
| Dibenzofuran  | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 132-64-9  |      |
| 2,4-Dichlorophenol  | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 120-83-2  |      |
| Diethylphthalate  | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 84-66-2   |      |
| 2,4-Dimethylphenol  | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 105-67-9  |      |
| Dimethylphthalate   | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 131-11-3  |      |
| Di-n-butylphthalate                                       | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                                | <872    | ug/kg | 872   | 872  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 534-52-1  |      |
| 2,4-Dinitrophenol   | <1680   | ug/kg | 1680  | 1680 | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 51-28-5   |      |
| 2,4-Dinitrotoluene  | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 121-14-2  |      |
| 2,6-Dinitrotoluene  | <93.0   | ug/kg | 347   | 93.0 | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 606-20-2  |      |
| Di-n-octylphthalate                                       | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                     | <1680   | ug/kg | 1680  | 1680 | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 122-66-7  |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-125 (4-5)**      **Lab ID: 50260268004**      Collected: 06/16/20 11:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                    |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| bis(2-Ethylhexyl)phthalate                                  | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 117-81-7  |      |
| Fluoranthene  | 4260    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 206-44-0  |      |
| Fluorene  | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                    | <101    | ug/kg | 347    | 101  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 87-68-3   |      |
| Hexachlorobenzene   | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                   | <1050   | ug/kg | 1050   | 1050 | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 77-47-4   |      |
| Hexachloroethane  | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                      | 914     | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 193-39-5  |      |
| Isophorone  | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 78-59-1   |      |
| 2-Methylnaphthalene   | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                    | <1050   | ug/kg | 1050   | 1050 | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                                | <1050   | ug/kg | 1050   | 1050 | 1  | 06/23/20 12:30 | 06/24/20 12:40 |           |      |
| Naphthalene   | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 91-20-3   |      |
| 2-Nitroaniline  | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 88-74-4   |      |
| 3-Nitroaniline  | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 99-09-2   |      |
| 4-Nitroaniline  | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 100-01-6  |      |
| Nitrobenzene  | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 98-95-3   |      |
| 2-Nitrophenol   | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 88-75-5   |      |
| 4-Nitrophenol   | <1680   | ug/kg | 1680   | 1680 | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 100-02-7  |      |
| N-Nitrosodimethylamine                                      | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                                  | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                      | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 86-30-6   |      |
| Pentachlorophenol   | <1540   | ug/kg | 1680   | 1540 | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 87-86-5   |      |
| Phenanthrene  | 2250    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 85-01-8   |      |
| Phenol  | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 108-95-2  |      |
| Pyrene  | 3800    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                      | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                       | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                       | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 88-06-2   |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)   | 56      | %     | 26-96  |      | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 4165-60-0 |      |
| Phenol-d5 (S)   | 72      | %     | 32-93  |      | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 4165-62-2 |      |
| 2-Fluorophenol (S)  | 72      | %     | 24-95  |      | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                    | 44      | %     | 20-109 |      | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 118-79-6  |      |
| 2-Fluorobiphenyl (S)  | 75      | %     | 36-91  |      | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 85      | %     | 27-117 |      | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                              |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                                 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| Acetone   | <1050   | ug/kg | 1050   | 1050 | 1  |                | 06/24/20 05:16 | 67-64-1   |      |
| Acrylonitrile   | <105    | ug/kg | 105    | 105  | 1  |                | 06/24/20 05:16 | 107-13-1  |      |
| tert-Amylmethyl ether                                       | <264    | ug/kg | 264    | 264  | 1  |                | 06/24/20 05:16 | 994-05-8  | N2   |
| Benzene   | <52.7   | ug/kg | 52.7   | 52.7 | 1  |                | 06/24/20 05:16 | 71-43-2   |      |
| Bromobenzene  | <105    | ug/kg | 105    | 105  | 1  |                | 06/24/20 05:16 | 108-86-1  |      |

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

**Sample: MW-125 (4-5)**      **Lab ID: 50260268004**      Collected: 06/16/20 11:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Bromochloromethane             | <26.4   | ug/kg  | 52.7 | 26.4 | 1  |          | 06/24/20 05:16 | 74-97-5    |      |
| Bromodichloromethane           | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 05:16 | 75-27-4    |      |
| Bromoform                      | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 05:16 | 75-25-2    |      |
| Bromomethane                   | <211    | ug/kg  | 211  | 211  | 1  |          | 06/24/20 05:16 | 74-83-9    |      |
| 2-Butanone (MEK)               | <791    | ug/kg  | 791  | 791  | 1  |          | 06/24/20 05:16 | 78-93-3    |      |
| tert-Butyl Alcohol             | <2640   | ug/kg  | 2640 | 2640 | 1  |          | 06/24/20 05:16 | 75-65-0    |      |
| n-Butylbenzene                 | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 05:16 | 104-51-8   |      |
| sec-Butylbenzene               | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 05:16 | 135-98-8   |      |
| tert-Butylbenzene              | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 05:16 | 98-06-6    |      |
| Carbon disulfide               | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 05:16 | 75-15-0    |      |
| Carbon tetrachloride           | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 05:16 | 56-23-5    |      |
| Chlorobenzene                  | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 05:16 | 108-90-7   |      |
| Chloroethane                   | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 05:16 | 75-00-3    |      |
| Chloroform                     | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 05:16 | 67-66-3    |      |
| Chloromethane                  | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 05:16 | 74-87-3    |      |
| Cyclohexane                    | <527    | ug/kg  | 527  | 527  | 1  |          | 06/24/20 05:16 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 05:16 | 96-12-8    |      |
| Dibromochloromethane           | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 05:16 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 05:16 | 106-93-4   |      |
| Dibromomethane                 | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 05:16 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 05:16 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 05:16 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 05:16 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <105    | ug/kg  | 1050 | 105  | 1  |          | 06/24/20 05:16 | 110-57-6   |      |
| Dichlorodifluoromethane        | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 05:16 | 75-71-8    |      |
| 1,1-Dichloroethane             | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 05:16 | 75-34-3    |      |
| 1,2-Dichloroethane             | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 05:16 | 107-06-2   |      |
| 1,1-Dichloroethene             | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 05:16 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 05:16 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 05:16 | 156-60-5   |      |
| 1,2-Dichloropropane            | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 05:16 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 05:16 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 05:16 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <211    | ug/kg  | 211  | 211  | 1  |          | 06/24/20 05:16 | 60-29-7    |      |
| Diisopropyl ether              | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 05:16 | 108-20-3   | N2   |
| Ethylbenzene                   | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 05:16 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 05:16 | 637-92-3   | N2   |
| Hexachloroethane               | <316    | ug/kg  | 316  | 316  | 1  |          | 06/24/20 05:16 | 67-72-1    | N2   |
| 2-Hexanone                     | <2640   | ug/kg  | 2640 | 2640 | 1  |          | 06/24/20 05:16 | 591-78-6   |      |
| Iodomethane                    | <105    | ug/kg  | 1050 | 105  | 1  |          | 06/24/20 05:16 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 05:16 | 98-82-8    |      |
| p-Isopropyltoluene             | <26.4   | ug/kg  | 52.7 | 26.4 | 1  |          | 06/24/20 05:16 | 99-87-6    |      |
| Methylene Chloride             | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 05:16 | 75-09-2    |      |
| 2-Methylnaphthalene            | <348    | ug/kg  | 348  | 348  | 1  |          | 06/24/20 05:16 | 91-57-6    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-125 (4-5)**      **Lab ID: 50260268004**      Collected: 06/16/20 11:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| 4-Methyl-2-pentanone (MIBK)             | <2640   | ug/kg | 2640   | 2640 | 1  |          | 06/24/20 05:16 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <264    | ug/kg | 264    | 264  | 1  |          | 06/24/20 05:16 | 1634-04-4   |      |
| Naphthalene                             | <348    | ug/kg | 348    | 348  | 1  |          | 06/24/20 05:16 | 91-20-3     |      |
| n-Propylbenzene                         | <105    | ug/kg | 105    | 105  | 1  |          | 06/24/20 05:16 | 103-65-1    |      |
| Styrene                                 | <52.7   | ug/kg | 52.7   | 52.7 | 1  |          | 06/24/20 05:16 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <105    | ug/kg | 105    | 105  | 1  |          | 06/24/20 05:16 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <52.7   | ug/kg | 52.7   | 52.7 | 1  |          | 06/24/20 05:16 | 79-34-5     |      |
| Tetrachloroethene                       | <52.7   | ug/kg | 52.7   | 52.7 | 1  |          | 06/24/20 05:16 | 127-18-4    |      |
| Tetrahydrofuran                         | <1050   | ug/kg | 1050   | 1050 | 1  |          | 06/24/20 05:16 | 109-99-9    | N2   |
| Toluene                                 | <105    | ug/kg | 105    | 105  | 1  |          | 06/24/20 05:16 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <264    | ug/kg | 264    | 264  | 1  |          | 06/24/20 05:16 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <264    | ug/kg | 264    | 264  | 1  |          | 06/24/20 05:16 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <52.7   | ug/kg | 52.7   | 52.7 | 1  |          | 06/24/20 05:16 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <52.7   | ug/kg | 52.7   | 52.7 | 1  |          | 06/24/20 05:16 | 79-00-5     |      |
| Trichloroethene                         | <52.7   | ug/kg | 52.7   | 52.7 | 1  |          | 06/24/20 05:16 | 79-01-6     |      |
| Trichlorofluoromethane                  | <105    | ug/kg | 105    | 105  | 1  |          | 06/24/20 05:16 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <105    | ug/kg | 105    | 105  | 1  |          | 06/24/20 05:16 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <264    | ug/kg | 264    | 264  | 1  |          | 06/24/20 05:16 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <105    | ug/kg | 105    | 105  | 1  |          | 06/24/20 05:16 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <105    | ug/kg | 105    | 105  | 1  |          | 06/24/20 05:16 | 108-67-8    |      |
| Vinyl chloride                          | <42.2   | ug/kg | 42.2   | 42.2 | 1  |          | 06/24/20 05:16 | 75-01-4     |      |
| m&p-Xylene                              | <26.4   | ug/kg | 52.7   | 26.4 | 1  |          | 06/24/20 05:16 | 179601-23-1 |      |
| o-Xylene                                | <26.4   | ug/kg | 52.7   | 26.4 | 1  |          | 06/24/20 05:16 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 107     | %     | 62-137 |      | 1  |          | 06/24/20 05:16 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 102     | %     | 64-139 |      | 1  |          | 06/24/20 05:16 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 105     | %     | 60-142 |      | 1  |          | 06/24/20 05:16 | 460-00-4    |      |

**Percent Moisture**

Analytical Method: SM 2540G  
Pace Analytical Services - Indianapolis

|                  |     |   |      |      |   |  |                |  |  |
|------------------|-----|---|------|------|---|--|----------------|--|--|
| Percent Moisture | 5.7 | % | 0.10 | 0.10 | 1 |  | 06/23/20 13:45 |  |  |
|------------------|-----|---|------|------|---|--|----------------|--|--|

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-126 (4-5)**      **Lab ID: 50260268005**      Collected: 06/15/20 10:20      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results  | Units | PQL    | MDL    | DF  | Prepared       | Analyzed       | CAS No.   | Qual |
|--|----------|-------|--------|--------|-----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                |          |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                     |          |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |        |     |                |                |           |      |
| n-Butanol  | <4610    | ug/kg | 4610   | 4610   | 1   |                | 06/22/20 16:34 | 71-36-3   |      |
| Ethanol  | <2620    | ug/kg | 2620   | 2620   | 1   |                | 06/22/20 16:34 | 64-17-5   |      |
| Methanol   | <4610    | ug/kg | 4610   | 4610   | 1   |                | 06/22/20 16:34 | 67-56-1   |      |
| <b>6010 MET ICP</b>  |          |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050  |          |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |        |     |                |                |           |      |
| Antimony   | <910     | ug/kg | 910    | 910    | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7440-36-0 |      |
| Arsenic  | 3710     | ug/kg | 1820   | 1820   | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7440-38-2 |      |
| Barium   | 12300    | ug/kg | 910    | 910    | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7440-39-3 |      |
| Beryllium  | <455     | ug/kg | 455    | 455    | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7440-41-7 |      |
| Boron  | <7280    | ug/kg | 7280   | 7280   | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7440-42-8 |      |
| Calcium  | 3580000  | ug/kg | 45500  | 6030   | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7440-70-2 |      |
| Chromium   | 24700    | ug/kg | 1820   | 1820   | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7440-47-3 |      |
| Copper   | 23000    | ug/kg | 910    | 910    | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7440-50-8 |      |
| Iron   | 58100000 | ug/kg | 114000 | 34600  | 5   | 06/26/20 14:44 | 06/29/20 12:45 | 7439-89-6 |      |
| Lead   | <9100    | ug/kg | 9100   | 9100   | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7439-92-1 |      |
| Magnesium  | 980000   | ug/kg | 22700  | 3640   | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7439-95-4 |      |
| Manganese  | 440000   | ug/kg | 910    | 910    | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7439-96-5 |      |
| Molybdenum   | 3830     | ug/kg | 910    | 910    | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7439-98-7 |      |
| Nickel   | 17700    | ug/kg | 910    | 910    | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7440-02-0 |      |
| Potassium  | 143000   | ug/kg | 45500  | 4450   | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7440-09-7 |      |
| Sodium   | 24500    | ug/kg | 22700  | 12400  | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7440-23-5 |      |
| Strontium  | 6300     | ug/kg | 4550   | 4550   | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7440-24-6 |      |
| Vanadium   | 8930     | ug/kg | 910    | 910    | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7440-62-2 |      |
| Zinc   | 16600    | ug/kg | 910    | 910    | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7440-66-6 |      |
| <b>6020 MET ICPMS</b>  |          |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B |          |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |        |     |                |                |           |      |
| Aluminum   | 4740000  | ug/kg | 104000 | 104000 | 100 | 06/24/20 09:22 | 06/30/20 00:55 | 7429-90-5 |      |
| Cadmium  | <208     | ug/kg | 208    | 208    | 1   | 06/24/20 09:22 | 06/25/20 14:54 | 7440-43-9 |      |
| Cobalt   | 1290     | ug/kg | 521    | 521    | 1   | 06/24/20 09:22 | 06/25/20 14:54 | 7440-48-4 |      |
| Selenium   | 245      | ug/kg | 208    | 208    | 1   | 06/24/20 09:22 | 06/25/20 14:54 | 7782-49-2 |      |
| Silver   | <104     | ug/kg | 104    | 104    | 1   | 06/24/20 09:22 | 06/25/20 14:54 | 7440-22-4 |      |
| Thallium   | <521     | ug/kg | 521    | 521    | 1   | 06/24/20 09:22 | 06/25/20 14:54 | 7440-28-0 |      |
| Titanium   | 187000   | ug/kg | 10400  | 2770   | 100 | 06/24/20 09:22 | 06/30/20 00:55 | 7440-32-6 | N2   |
| <b>7471 Mercury</b>  |          |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 7471      Preparation Method: EPA 7471  |          |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |        |     |                |                |           |      |
| Mercury  | <78.6    | ug/kg | 99.5   | 78.6   | 1   | 06/26/20 02:49 | 06/26/20 07:25 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                       |          |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 8270      Preparation Method: EPA 3546  |          |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |        |     |                |                |           |      |
| Acenaphthene   | <344     | ug/kg | 344    | 344    | 1   | 06/23/20 12:30 | 06/24/20 12:57 | 83-32-9   |      |
| Acenaphthylene   | <344     | ug/kg | 344    | 344    | 1   | 06/23/20 12:30 | 06/24/20 12:57 | 208-96-8  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-126 (4-5)**      **Lab ID: 50260268005**      Collected: 06/15/20 10:20      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>   |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546<br>Pace Analytical Services - Indianapolis |         |       |      |      |    |                |                |           |      |
| Anthracene   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 120-12-7  |      |
| Benzo(a)anthracene   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 56-55-3   |      |
| Benzo(a)pyrene   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 50-32-8   |      |
| Benzo(b)fluoranthene   | 461     | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 205-99-2  |      |
| Benzo(g,h,i)perylene   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 191-24-2  |      |
| Benzo(k)fluoranthene   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 207-08-9  |      |
| 4-Bromophenylphenyl ether  | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 101-55-3  |      |
| Butylbenzylphthalate   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 85-68-7   |      |
| Carbazole  | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 86-74-8   |      |
| 4-Chloro-3-methylphenol  | <292    | ug/kg | 344  | 292  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 111-91-1  |      |
| bis(2-Chloroethyl) ether   | <167    | ug/kg | 344  | 167  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 108-60-1  |      |
| 2-Chloronaphthalene  | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 91-58-7   |      |
| 2-Chlorophenol   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 7005-72-3 |      |
| Chrysene   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 218-01-9  |      |
| Dibenz(a,h)anthracene  | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 53-70-3   |      |
| Dibenzofuran   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 132-64-9  |      |
| 2,4-Dichlorophenol   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 120-83-2  |      |
| Diethylphthalate   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 84-66-2   |      |
| 2,4-Dimethylphenol   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 105-67-9  |      |
| Dimethylphthalate  | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 131-11-3  |      |
| Di-n-butylphthalate  | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | <864    | ug/kg | 864  | 864  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 534-52-1  |      |
| 2,4-Dinitrophenol  | <1670   | ug/kg | 1670 | 1670 | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 51-28-5   |      |
| 2,4-Dinitrotoluene   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 121-14-2  |      |
| 2,6-Dinitrotoluene   | <92.1   | ug/kg | 344  | 92.1 | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 606-20-2  |      |
| Di-n-octylphthalate  | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 117-84-0  |      |
| 1,2-Diphenylhydrazine  | <1670   | ug/kg | 1670 | 1670 | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 117-81-7  |      |
| Fluoranthene   | 426     | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 206-44-0  |      |
| Fluorene   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 86-73-7   |      |
| Hexachloro-1,3-butadiene   | <100    | ug/kg | 344  | 100  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 87-68-3   |      |
| Hexachlorobenzene  | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 118-74-1  |      |
| Hexachlorocyclopentadiene  | <1040   | ug/kg | 1040 | 1040 | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 77-47-4   |      |
| Hexachloroethane   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 193-39-5  |      |
| Isophorone   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 78-59-1   |      |
| 2-Methylnaphthalene  | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)   | <1040   | ug/kg | 1040 | 1040 | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)   | <1040   | ug/kg | 1040 | 1040 | 1  | 06/23/20 12:30 | 06/24/20 12:57 |           |      |
| Naphthalene  | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 91-20-3   |      |
| 2-Nitroaniline   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 88-74-4   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-126 (4-5)**      **Lab ID: 50260268005**      Collected: 06/15/20 10:20      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                 |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |        |      |    |                |                |           |      |
| 3-Nitroaniline   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 99-09-2   |      |
| 4-Nitroaniline   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 100-01-6  |      |
| Nitrobenzene   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 98-95-3   |      |
| 2-Nitrophenol  | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 88-75-5   |      |
| 4-Nitrophenol  | <1670   | ug/kg | 1670   | 1670 | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 100-02-7  |      |
| N-Nitrosodimethylamine                                   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                               | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 86-30-6   |      |
| Pentachlorophenol  | <1530   | ug/kg | 1670   | 1530 | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 87-86-5   |      |
| Phenanthrene   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 85-01-8   |      |
| Phenol   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 108-95-2  |      |
| Pyrene   | 436     | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                    | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                    | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)                                      | 59      | %     | 26-96  |      | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 4165-60-0 |      |
| Phenol-d5 (S)  | 77      | %     | 32-93  |      | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 4165-62-2 |      |
| 2-Fluorophenol (S)                                       | 78      | %     | 24-95  |      | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                 | 77      | %     | 20-109 |      | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 118-79-6  |      |
| 2-Fluorobiphenyl (S)                                     | 75      | %     | 36-91  |      | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 321-60-8  |      |
| p-Terphenyl-d14 (S)                                      | 88      | %     | 27-117 |      | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                           |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                              |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |        |      |    |                |                |           |      |
| Acetone  | <950    | ug/kg | 950    | 950  | 1  |                | 06/24/20 05:50 | 67-64-1   |      |
| Acrylonitrile  | <95.0   | ug/kg | 95.0   | 95.0 | 1  |                | 06/24/20 05:50 | 107-13-1  |      |
| tert-Amylmethyl ether                                    | <237    | ug/kg | 237    | 237  | 1  |                | 06/24/20 05:50 | 994-05-8  | N2   |
| Benzene  | <47.5   | ug/kg | 47.5   | 47.5 | 1  |                | 06/24/20 05:50 | 71-43-2   |      |
| Bromobenzene   | <95.0   | ug/kg | 95.0   | 95.0 | 1  |                | 06/24/20 05:50 | 108-86-1  |      |
| Bromochloromethane                                       | <23.7   | ug/kg | 47.5   | 23.7 | 1  |                | 06/24/20 05:50 | 74-97-5   |      |
| Bromodichloromethane                                     | <95.0   | ug/kg | 95.0   | 95.0 | 1  |                | 06/24/20 05:50 | 75-27-4   |      |
| Bromoform  | <95.0   | ug/kg | 95.0   | 95.0 | 1  |                | 06/24/20 05:50 | 75-25-2   |      |
| Bromomethane   | <190    | ug/kg | 190    | 190  | 1  |                | 06/24/20 05:50 | 74-83-9   |      |
| 2-Butanone (MEK)   | <712    | ug/kg | 712    | 712  | 1  |                | 06/24/20 05:50 | 78-93-3   |      |
| tert-Butyl Alcohol                                       | <2370   | ug/kg | 2370   | 2370 | 1  |                | 06/24/20 05:50 | 75-65-0   |      |
| n-Butylbenzene   | <47.5   | ug/kg | 47.5   | 47.5 | 1  |                | 06/24/20 05:50 | 104-51-8  |      |
| sec-Butylbenzene   | <47.5   | ug/kg | 47.5   | 47.5 | 1  |                | 06/24/20 05:50 | 135-98-8  |      |
| tert-Butylbenzene  | <47.5   | ug/kg | 47.5   | 47.5 | 1  |                | 06/24/20 05:50 | 98-06-6   |      |
| Carbon disulfide   | <237    | ug/kg | 237    | 237  | 1  |                | 06/24/20 05:50 | 75-15-0   |      |
| Carbon tetrachloride                                     | <47.5   | ug/kg | 47.5   | 47.5 | 1  |                | 06/24/20 05:50 | 56-23-5   |      |
| Chlorobenzene  | <47.5   | ug/kg | 47.5   | 47.5 | 1  |                | 06/24/20 05:50 | 108-90-7  |      |
| Chloroethane   | <237    | ug/kg | 237    | 237  | 1  |                | 06/24/20 05:50 | 75-00-3   |      |
| Chloroform   | <47.5   | ug/kg | 47.5   | 47.5 | 1  |                | 06/24/20 05:50 | 67-66-3   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-126 (4-5)**      **Lab ID: 50260268005**      Collected: 06/15/20 10:20      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Chloromethane                  | <237    | ug/kg  | 237  | 237  | 1  |          | 06/24/20 05:50 | 74-87-3    |      |
| Cyclohexane                    | <475    | ug/kg  | 475  | 475  | 1  |          | 06/24/20 05:50 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <47.5   | ug/kg  | 47.5 | 47.5 | 1  |          | 06/24/20 05:50 | 96-12-8    |      |
| Dibromochloromethane           | <95.0   | ug/kg  | 95.0 | 95.0 | 1  |          | 06/24/20 05:50 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <47.5   | ug/kg  | 47.5 | 47.5 | 1  |          | 06/24/20 05:50 | 106-93-4   |      |
| Dibromomethane                 | <237    | ug/kg  | 237  | 237  | 1  |          | 06/24/20 05:50 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <95.0   | ug/kg  | 95.0 | 95.0 | 1  |          | 06/24/20 05:50 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <95.0   | ug/kg  | 95.0 | 95.0 | 1  |          | 06/24/20 05:50 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <95.0   | ug/kg  | 95.0 | 95.0 | 1  |          | 06/24/20 05:50 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <95.0   | ug/kg  | 95.0 | 95.0 | 1  |          | 06/24/20 05:50 | 110-57-6   |      |
| Dichlorodifluoromethane        | <237    | ug/kg  | 237  | 237  | 1  |          | 06/24/20 05:50 | 75-71-8    |      |
| 1,1-Dichloroethane             | <47.5   | ug/kg  | 47.5 | 47.5 | 1  |          | 06/24/20 05:50 | 75-34-3    |      |
| 1,2-Dichloroethane             | <47.5   | ug/kg  | 47.5 | 47.5 | 1  |          | 06/24/20 05:50 | 107-06-2   |      |
| 1,1-Dichloroethene             | <47.5   | ug/kg  | 47.5 | 47.5 | 1  |          | 06/24/20 05:50 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <47.5   | ug/kg  | 47.5 | 47.5 | 1  |          | 06/24/20 05:50 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <47.5   | ug/kg  | 47.5 | 47.5 | 1  |          | 06/24/20 05:50 | 156-60-5   |      |
| 1,2-Dichloropropane            | <47.5   | ug/kg  | 47.5 | 47.5 | 1  |          | 06/24/20 05:50 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <95.0   | ug/kg  | 95.0 | 95.0 | 1  |          | 06/24/20 05:50 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <95.0   | ug/kg  | 95.0 | 95.0 | 1  |          | 06/24/20 05:50 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <190    | ug/kg  | 190  | 190  | 1  |          | 06/24/20 05:50 | 60-29-7    |      |
| Diisopropyl ether              | <237    | ug/kg  | 237  | 237  | 1  |          | 06/24/20 05:50 | 108-20-3   | N2   |
| Ethylbenzene                   | <47.5   | ug/kg  | 47.5 | 47.5 | 1  |          | 06/24/20 05:50 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <237    | ug/kg  | 237  | 237  | 1  |          | 06/24/20 05:50 | 637-92-3   | N2   |
| Hexachloroethane               | <285    | ug/kg  | 285  | 285  | 1  |          | 06/24/20 05:50 | 67-72-1    | N2   |
| 2-Hexanone                     | <2370   | ug/kg  | 2370 | 2370 | 1  |          | 06/24/20 05:50 | 591-78-6   |      |
| Iodomethane                    | <95.0   | ug/kg  | 95.0 | 95.0 | 1  |          | 06/24/20 05:50 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <237    | ug/kg  | 237  | 237  | 1  |          | 06/24/20 05:50 | 98-82-8    |      |
| p-Isopropyltoluene             | <23.7   | ug/kg  | 47.5 | 23.7 | 1  |          | 06/24/20 05:50 | 99-87-6    |      |
| Methylene Chloride             | <95.0   | ug/kg  | 95.0 | 95.0 | 1  |          | 06/24/20 05:50 | 75-09-2    |      |
| 2-Methylnaphthalene            | <313    | ug/kg  | 313  | 313  | 1  |          | 06/24/20 05:50 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)    | <2370   | ug/kg  | 2370 | 2370 | 1  |          | 06/24/20 05:50 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <237    | ug/kg  | 237  | 237  | 1  |          | 06/24/20 05:50 | 1634-04-4  |      |
| Naphthalene                    | <313    | ug/kg  | 313  | 313  | 1  |          | 06/24/20 05:50 | 91-20-3    |      |
| n-Propylbenzene                | <95.0   | ug/kg  | 95.0 | 95.0 | 1  |          | 06/24/20 05:50 | 103-65-1   |      |
| Styrene                        | <47.5   | ug/kg  | 47.5 | 47.5 | 1  |          | 06/24/20 05:50 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <95.0   | ug/kg  | 95.0 | 95.0 | 1  |          | 06/24/20 05:50 | 630-20-6   |      |
| 1,1,1,2,2-Tetrachloroethane    | <47.5   | ug/kg  | 47.5 | 47.5 | 1  |          | 06/24/20 05:50 | 79-34-5    |      |
| Tetrachloroethene              | <47.5   | ug/kg  | 47.5 | 47.5 | 1  |          | 06/24/20 05:50 | 127-18-4   |      |
| Tetrahydrofuran                | <950    | ug/kg  | 950  | 950  | 1  |          | 06/24/20 05:50 | 109-99-9   | N2   |
| Toluene                        | <95.0   | ug/kg  | 95.0 | 95.0 | 1  |          | 06/24/20 05:50 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene         | <237    | ug/kg  | 237  | 237  | 1  |          | 06/24/20 05:50 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene         | <237    | ug/kg  | 237  | 237  | 1  |          | 06/24/20 05:50 | 120-82-1   |      |
| 1,1,1-Trichloroethane          | <47.5   | ug/kg  | 47.5 | 47.5 | 1  |          | 06/24/20 05:50 | 71-55-6    |      |
| 1,1,2-Trichloroethane          | <47.5   | ug/kg  | 47.5 | 47.5 | 1  |          | 06/24/20 05:50 | 79-00-5    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-126 (4-5)**      **Lab ID: 50260268005**      Collected: 06/15/20 10:20      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>                             |         |       |        |      |    |                |                |             |      |
| Analytical Method: EPA 8260                                |         |       |        |      |    |                |                |             |      |
| Pace Analytical Services - Indianapolis                    |         |       |        |      |    |                |                |             |      |
| Trichloroethene  | <47.5   | ug/kg | 47.5   | 47.5 | 1  |                | 06/24/20 05:50 | 79-01-6     |      |
| Trichlorofluoromethane                                     | <95.0   | ug/kg | 95.0   | 95.0 | 1  |                | 06/24/20 05:50 | 75-69-4     |      |
| 1,2,3-Trichloropropane                                     | <95.0   | ug/kg | 95.0   | 95.0 | 1  |                | 06/24/20 05:50 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                                     | <237    | ug/kg | 237    | 237  | 1  |                | 06/24/20 05:50 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                                     | <95.0   | ug/kg | 95.0   | 95.0 | 1  |                | 06/24/20 05:50 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                                     | <95.0   | ug/kg | 95.0   | 95.0 | 1  |                | 06/24/20 05:50 | 108-67-8    |      |
| Vinyl chloride   | <38.0   | ug/kg | 38.0   | 38.0 | 1  |                | 06/24/20 05:50 | 75-01-4     |      |
| m&p-Xylene   | <23.7   | ug/kg | 47.5   | 23.7 | 1  |                | 06/24/20 05:50 | 179601-23-1 |      |
| o-Xylene   | <23.7   | ug/kg | 47.5   | 23.7 | 1  |                | 06/24/20 05:50 | 95-47-6     |      |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |             |      |
| Dibromofluoromethane (S)                                   | 103     | %     | 62-137 |      | 1  |                | 06/24/20 05:50 | 1868-53-7   |      |
| Toluene-d8 (S)   | 101     | %     | 64-139 |      | 1  |                | 06/24/20 05:50 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                                   | 105     | %     | 60-142 |      | 1  |                | 06/24/20 05:50 | 460-00-4    |      |
| <b>Percent Moisture</b>                                    |         |       |        |      |    |                |                |             |      |
| Analytical Method: SM 2540G                                |         |       |        |      |    |                |                |             |      |
| Pace Analytical Services - Indianapolis                    |         |       |        |      |    |                |                |             |      |
| Percent Moisture   | 4.6     | %     | 0.10   | 0.10 | 1  |                | 06/23/20 13:45 |             |      |
| <b>7196 Chromium, Hexavalent</b>                           |         |       |        |      |    |                |                |             |      |
| Analytical Method: EPA 7196A Preparation Method: EPA 3060A |         |       |        |      |    |                |                |             |      |
| Pace Analytical Services - Indianapolis                    |         |       |        |      |    |                |                |             |      |
| Chromium, Hexavalent                                       | <2.1    | mg/kg | 2.1    | 2.1  | 1  | 07/06/20 10:50 | 07/07/20 16:14 | 18540-29-9  |      |
| <b>Trivalent Chromium Calculation</b>                      |         |       |        |      |    |                |                |             |      |
| Analytical Method: Trivalent Chromium Calculation          |         |       |        |      |    |                |                |             |      |
| Pace Analytical Services - Indianapolis                    |         |       |        |      |    |                |                |             |      |
| Chromium, Trivalent  | 24.7    | mg/kg | 1.0    |      | 1  |                | 07/10/20 14:23 | 16065-83-1  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-126 (7.5-8.5')**      **Lab ID: 50260268006**      Collected: 06/15/20 10:30      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL   | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|-------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                     |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |       |       |    |                |                |           |      |
| n-Butanol  | <4710   | ug/kg | 4710  | 4710  | 1  |                | 06/22/20 16:43 | 71-36-3   |      |
| Ethanol  | <2670   | ug/kg | 2670  | 2670  | 1  |                | 06/22/20 16:43 | 64-17-5   |      |
| Methanol   | <4710   | ug/kg | 4710  | 4710  | 1  |                | 06/22/20 16:43 | 67-56-1   |      |
| <b>6010 MET ICP</b>  |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050  |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |       |       |    |                |                |           |      |
| Antimony   | <1020   | ug/kg | 1020  | 1020  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7440-36-0 |      |
| Arsenic  | <2040   | ug/kg | 2040  | 2040  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7440-38-2 |      |
| Barium   | 8970    | ug/kg | 1020  | 1020  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7440-39-3 |      |
| Beryllium  | <511    | ug/kg | 511   | 511   | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7440-41-7 |      |
| Boron  | <8180   | ug/kg | 8180  | 8180  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7440-42-8 |      |
| Calcium  | 1790000 | ug/kg | 51100 | 6780  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7440-70-2 |      |
| Chromium   | 5810    | ug/kg | 2040  | 2040  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7440-47-3 |      |
| Copper   | 3020    | ug/kg | 1020  | 1020  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7440-50-8 |      |
| Iron   | 4180000 | ug/kg | 25600 | 7770  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7439-89-6 |      |
| Lead   | <10200  | ug/kg | 10200 | 10200 | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7439-92-1 |      |
| Magnesium  | 988000  | ug/kg | 25600 | 4090  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7439-95-4 |      |
| Manganese  | 79400   | ug/kg | 1020  | 1020  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7439-96-5 |      |
| Molybdenum   | <1020   | ug/kg | 1020  | 1020  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7439-98-7 |      |
| Nickel   | 3960    | ug/kg | 1020  | 1020  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7440-02-0 |      |
| Potassium  | 175000  | ug/kg | 51100 | 5000  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7440-09-7 |      |
| Sodium   | 23900J  | ug/kg | 25600 | 13900 | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7440-23-5 |      |
| Strontium  | <5110   | ug/kg | 5110  | 5110  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7440-24-6 |      |
| Vanadium   | 8380    | ug/kg | 1020  | 1020  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7440-62-2 |      |
| Zinc   | 11600   | ug/kg | 1020  | 1020  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7440-66-6 |      |
| <b>6020 MET ICPMS</b>  |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |       |       |    |                |                |           |      |
| Aluminum   | 2850000 | ug/kg | 52800 | 52800 | 50 | 06/24/20 09:22 | 06/30/20 00:59 | 7429-90-5 |      |
| Cadmium  | <211    | ug/kg | 211   | 211   | 1  | 06/24/20 09:22 | 06/25/20 15:03 | 7440-43-9 |      |
| Cobalt   | 1710    | ug/kg | 528   | 528   | 1  | 06/24/20 09:22 | 06/25/20 15:03 | 7440-48-4 |      |
| Selenium   | <1060   | ug/kg | 1060  | 1060  | 5  | 06/24/20 09:22 | 06/30/20 02:40 | 7782-49-2 | D3   |
| Silver   | <106    | ug/kg | 106   | 106   | 1  | 06/24/20 09:22 | 06/25/20 15:03 | 7440-22-4 |      |
| Thallium   | <528    | ug/kg | 528   | 528   | 1  | 06/24/20 09:22 | 06/25/20 15:03 | 7440-28-0 |      |
| Titanium   | 159000  | ug/kg | 5280  | 1400  | 50 | 06/24/20 09:22 | 06/30/20 00:59 | 7440-32-6 | N2   |
| <b>7471 Mercury</b>  |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 7471      Preparation Method: EPA 7471  |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |       |       |    |                |                |           |      |
| Mercury  | <87.7   | ug/kg | 111   | 87.7  | 1  | 06/26/20 02:49 | 06/26/20 07:28 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                       |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 8270      Preparation Method: EPA 3546  |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |       |       |    |                |                |           |      |
| Acenaphthene   | <333    | ug/kg | 333   | 333   | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 83-32-9   |      |
| Acenaphthylene   | <333    | ug/kg | 333   | 333   | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 208-96-8  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

Sample: MW-126 (7.5-8.5') Lab ID: 50260268006 Collected: 06/15/20 10:30 Received: 06/18/20 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters   | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                 |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |      |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |      |      |    |                |                |           |      |
| Anthracene   | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 120-12-7  |      |
| Benzo(a)anthracene                                       | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 56-55-3   |      |
| Benzo(a)pyrene   | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 50-32-8   |      |
| Benzo(b)fluoranthene                                     | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 205-99-2  |      |
| Benzo(g,h,i)perylene                                     | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 191-24-2  |      |
| Benzo(k)fluoranthene                                     | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 207-08-9  |      |
| 4-Bromophenylphenyl ether                                | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 101-55-3  |      |
| Butylbenzylphthalate                                     | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 85-68-7   |      |
| Carbazole  | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                  | <282    | ug/kg | 333  | 282  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                               | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                 | <161    | ug/kg | 333  | 161  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                             | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 108-60-1  |      |
| 2-Chloronaphthalene                                      | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 91-58-7   |      |
| 2-Chlorophenol   | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                               | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 7005-72-3 |      |
| Chrysene   | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                    | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 53-70-3   |      |
| Dibenzofuran   | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 132-64-9  |      |
| 2,4-Dichlorophenol                                       | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 120-83-2  |      |
| Diethylphthalate   | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 84-66-2   |      |
| 2,4-Dimethylphenol                                       | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 105-67-9  |      |
| Dimethylphthalate  | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 131-11-3  |      |
| Di-n-butylphthalate                                      | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                               | <837    | ug/kg | 837  | 837  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 534-52-1  |      |
| 2,4-Dinitrophenol  | <1610   | ug/kg | 1610 | 1610 | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 51-28-5   |      |
| 2,4-Dinitrotoluene                                       | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 121-14-2  |      |
| 2,6-Dinitrotoluene                                       | <89.3   | ug/kg | 333  | 89.3 | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 606-20-2  |      |
| Di-n-octylphthalate                                      | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                    | <1610   | ug/kg | 1610 | 1610 | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate                               | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 117-81-7  |      |
| Fluoranthene   | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 206-44-0  |      |
| Fluorene   | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                 | <96.9   | ug/kg | 333  | 96.9 | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 87-68-3   |      |
| Hexachlorobenzene  | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                | <1010   | ug/kg | 1010 | 1010 | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 77-47-4   |      |
| Hexachloroethane   | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                   | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 193-39-5  |      |
| Isophorone   | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 78-59-1   |      |
| 2-Methylnaphthalene                                      | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                 | <1010   | ug/kg | 1010 | 1010 | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                             | <1010   | ug/kg | 1010 | 1010 | 1  | 06/23/20 12:30 | 06/24/20 13:14 |           |      |
| Naphthalene  | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 91-20-3   |      |
| 2-Nitroaniline   | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 88-74-4   |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-126 (7.5-8.5')**      **Lab ID: 50260268006**      Collected: 06/15/20 10:30      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                 |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |        |      |    |                |                |           |      |
| 3-Nitroaniline   | <333    | ug/kg | 333    | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 99-09-2   |      |
| 4-Nitroaniline   | <333    | ug/kg | 333    | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 100-01-6  |      |
| Nitrobenzene   | <333    | ug/kg | 333    | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 98-95-3   |      |
| 2-Nitrophenol  | <333    | ug/kg | 333    | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 88-75-5   |      |
| 4-Nitrophenol  | <1610   | ug/kg | 1610   | 1610 | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 100-02-7  |      |
| N-Nitrosodimethylamine                                   | <333    | ug/kg | 333    | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                               | <333    | ug/kg | 333    | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                   | <333    | ug/kg | 333    | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 86-30-6   |      |
| Pentachlorophenol  | <1480   | ug/kg | 1610   | 1480 | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 87-86-5   |      |
| Phenanthrene   | <333    | ug/kg | 333    | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 85-01-8   |      |
| Phenol   | <333    | ug/kg | 333    | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 108-95-2  |      |
| Pyrene   | <333    | ug/kg | 333    | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                   | <333    | ug/kg | 333    | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                    | <333    | ug/kg | 333    | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                    | <333    | ug/kg | 333    | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)                                      | 53      | %     | 26-96  |      | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 4165-60-0 |      |
| Phenol-d5 (S)  | 81      | %     | 32-93  |      | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 4165-62-2 |      |
| 2-Fluorophenol (S)                                       | 82      | %     | 24-95  |      | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                 | 75      | %     | 20-109 |      | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 118-79-6  |      |
| 2-Fluorobiphenyl (S)                                     | 68      | %     | 36-91  |      | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 321-60-8  |      |
| p-Terphenyl-d14 (S)                                      | 93      | %     | 27-117 |      | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                           |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                              |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |        |      |    |                |                |           |      |
| Acetone  | <995    | ug/kg | 995    | 995  | 1  |                | 06/24/20 06:23 | 67-64-1   |      |
| Acrylonitrile  | <99.5   | ug/kg | 99.5   | 99.5 | 1  |                | 06/24/20 06:23 | 107-13-1  |      |
| tert-Amylmethyl ether                                    | <249    | ug/kg | 249    | 249  | 1  |                | 06/24/20 06:23 | 994-05-8  | N2   |
| Benzene  | <49.7   | ug/kg | 49.7   | 49.7 | 1  |                | 06/24/20 06:23 | 71-43-2   |      |
| Bromobenzene   | <99.5   | ug/kg | 99.5   | 99.5 | 1  |                | 06/24/20 06:23 | 108-86-1  |      |
| Bromochloromethane                                       | <24.9   | ug/kg | 49.7   | 24.9 | 1  |                | 06/24/20 06:23 | 74-97-5   |      |
| Bromodichloromethane                                     | <99.5   | ug/kg | 99.5   | 99.5 | 1  |                | 06/24/20 06:23 | 75-27-4   |      |
| Bromoform  | <99.5   | ug/kg | 99.5   | 99.5 | 1  |                | 06/24/20 06:23 | 75-25-2   |      |
| Bromomethane   | <199    | ug/kg | 199    | 199  | 1  |                | 06/24/20 06:23 | 74-83-9   |      |
| 2-Butanone (MEK)   | <746    | ug/kg | 746    | 746  | 1  |                | 06/24/20 06:23 | 78-93-3   |      |
| tert-Butyl Alcohol                                       | <2490   | ug/kg | 2490   | 2490 | 1  |                | 06/24/20 06:23 | 75-65-0   |      |
| n-Butylbenzene   | <49.7   | ug/kg | 49.7   | 49.7 | 1  |                | 06/24/20 06:23 | 104-51-8  |      |
| sec-Butylbenzene   | <49.7   | ug/kg | 49.7   | 49.7 | 1  |                | 06/24/20 06:23 | 135-98-8  |      |
| tert-Butylbenzene  | <49.7   | ug/kg | 49.7   | 49.7 | 1  |                | 06/24/20 06:23 | 98-06-6   |      |
| Carbon disulfide   | <249    | ug/kg | 249    | 249  | 1  |                | 06/24/20 06:23 | 75-15-0   |      |
| Carbon tetrachloride                                     | <49.7   | ug/kg | 49.7   | 49.7 | 1  |                | 06/24/20 06:23 | 56-23-5   |      |
| Chlorobenzene  | <49.7   | ug/kg | 49.7   | 49.7 | 1  |                | 06/24/20 06:23 | 108-90-7  |      |
| Chloroethane   | <249    | ug/kg | 249    | 249  | 1  |                | 06/24/20 06:23 | 75-00-3   |      |
| Chloroform   | <49.7   | ug/kg | 49.7   | 49.7 | 1  |                | 06/24/20 06:23 | 67-66-3   |      |

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-126 (7.5-8.5')**      **Lab ID: 50260268006**      Collected: 06/15/20 10:30      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Chloromethane                  | <249    | ug/kg  | 249  | 249  | 1  |          | 06/24/20 06:23 | 74-87-3    |      |
| Cyclohexane                    | <497    | ug/kg  | 497  | 497  | 1  |          | 06/24/20 06:23 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <49.7   | ug/kg  | 49.7 | 49.7 | 1  |          | 06/24/20 06:23 | 96-12-8    |      |
| Dibromochloromethane           | <99.5   | ug/kg  | 99.5 | 99.5 | 1  |          | 06/24/20 06:23 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <49.7   | ug/kg  | 49.7 | 49.7 | 1  |          | 06/24/20 06:23 | 106-93-4   |      |
| Dibromomethane                 | <249    | ug/kg  | 249  | 249  | 1  |          | 06/24/20 06:23 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <99.5   | ug/kg  | 99.5 | 99.5 | 1  |          | 06/24/20 06:23 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <99.5   | ug/kg  | 99.5 | 99.5 | 1  |          | 06/24/20 06:23 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <99.5   | ug/kg  | 99.5 | 99.5 | 1  |          | 06/24/20 06:23 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <99.5   | ug/kg  | 99.5 | 99.5 | 1  |          | 06/24/20 06:23 | 110-57-6   |      |
| Dichlorodifluoromethane        | <249    | ug/kg  | 249  | 249  | 1  |          | 06/24/20 06:23 | 75-71-8    |      |
| 1,1-Dichloroethane             | <49.7   | ug/kg  | 49.7 | 49.7 | 1  |          | 06/24/20 06:23 | 75-34-3    |      |
| 1,2-Dichloroethane             | <49.7   | ug/kg  | 49.7 | 49.7 | 1  |          | 06/24/20 06:23 | 107-06-2   |      |
| 1,1-Dichloroethene             | <49.7   | ug/kg  | 49.7 | 49.7 | 1  |          | 06/24/20 06:23 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <49.7   | ug/kg  | 49.7 | 49.7 | 1  |          | 06/24/20 06:23 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <49.7   | ug/kg  | 49.7 | 49.7 | 1  |          | 06/24/20 06:23 | 156-60-5   |      |
| 1,2-Dichloropropane            | <49.7   | ug/kg  | 49.7 | 49.7 | 1  |          | 06/24/20 06:23 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <99.5   | ug/kg  | 99.5 | 99.5 | 1  |          | 06/24/20 06:23 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <99.5   | ug/kg  | 99.5 | 99.5 | 1  |          | 06/24/20 06:23 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <199    | ug/kg  | 199  | 199  | 1  |          | 06/24/20 06:23 | 60-29-7    |      |
| Diisopropyl ether              | <249    | ug/kg  | 249  | 249  | 1  |          | 06/24/20 06:23 | 108-20-3   | N2   |
| Ethylbenzene                   | <49.7   | ug/kg  | 49.7 | 49.7 | 1  |          | 06/24/20 06:23 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <249    | ug/kg  | 249  | 249  | 1  |          | 06/24/20 06:23 | 637-92-3   | N2   |
| Hexachloroethane               | <298    | ug/kg  | 298  | 298  | 1  |          | 06/24/20 06:23 | 67-72-1    | N2   |
| 2-Hexanone                     | <2490   | ug/kg  | 2490 | 2490 | 1  |          | 06/24/20 06:23 | 591-78-6   |      |
| Iodomethane                    | <99.5   | ug/kg  | 99.5 | 99.5 | 1  |          | 06/24/20 06:23 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <249    | ug/kg  | 249  | 249  | 1  |          | 06/24/20 06:23 | 98-82-8    |      |
| p-Isopropyltoluene             | <24.9   | ug/kg  | 49.7 | 24.9 | 1  |          | 06/24/20 06:23 | 99-87-6    |      |
| Methylene Chloride             | <99.5   | ug/kg  | 99.5 | 99.5 | 1  |          | 06/24/20 06:23 | 75-09-2    |      |
| 2-Methylnaphthalene            | <328    | ug/kg  | 328  | 328  | 1  |          | 06/24/20 06:23 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)    | <2490   | ug/kg  | 2490 | 2490 | 1  |          | 06/24/20 06:23 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <249    | ug/kg  | 249  | 249  | 1  |          | 06/24/20 06:23 | 1634-04-4  |      |
| Naphthalene                    | <328    | ug/kg  | 328  | 328  | 1  |          | 06/24/20 06:23 | 91-20-3    |      |
| n-Propylbenzene                | <99.5   | ug/kg  | 99.5 | 99.5 | 1  |          | 06/24/20 06:23 | 103-65-1   |      |
| Styrene                        | <49.7   | ug/kg  | 49.7 | 49.7 | 1  |          | 06/24/20 06:23 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <99.5   | ug/kg  | 99.5 | 99.5 | 1  |          | 06/24/20 06:23 | 630-20-6   |      |
| 1,1,1,2,2-Tetrachloroethane    | <49.7   | ug/kg  | 49.7 | 49.7 | 1  |          | 06/24/20 06:23 | 79-34-5    |      |
| Tetrachloroethene              | <49.7   | ug/kg  | 49.7 | 49.7 | 1  |          | 06/24/20 06:23 | 127-18-4   |      |
| Tetrahydrofuran                | <99.5   | ug/kg  | 99.5 | 99.5 | 1  |          | 06/24/20 06:23 | 109-99-9   | N2   |
| Toluene                        | <99.5   | ug/kg  | 99.5 | 99.5 | 1  |          | 06/24/20 06:23 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene         | <249    | ug/kg  | 249  | 249  | 1  |          | 06/24/20 06:23 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene         | <249    | ug/kg  | 249  | 249  | 1  |          | 06/24/20 06:23 | 120-82-1   |      |
| 1,1,1-Trichloroethane          | <49.7   | ug/kg  | 49.7 | 49.7 | 1  |          | 06/24/20 06:23 | 71-55-6    |      |
| 1,1,2-Trichloroethane          | <49.7   | ug/kg  | 49.7 | 49.7 | 1  |          | 06/24/20 06:23 | 79-00-5    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-126 (7.5-8.5')**      **Lab ID: 50260268006**      Collected: 06/15/20 10:30      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|---------|--|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Trichloroethene                | <49.7   | ug/kg  | 49.7   | 49.7 | 1  |          | 06/24/20 06:23 | 79-01-6     |      |
| Trichlorofluoromethane         | <99.5   | ug/kg  | 99.5   | 99.5 | 1  |          | 06/24/20 06:23 | 75-69-4     |      |
| 1,2,3-Trichloropropane         | <99.5   | ug/kg  | 99.5   | 99.5 | 1  |          | 06/24/20 06:23 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene         | <249    | ug/kg  | 249    | 249  | 1  |          | 06/24/20 06:23 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene         | <99.5   | ug/kg  | 99.5   | 99.5 | 1  |          | 06/24/20 06:23 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | <99.5   | ug/kg  | 99.5   | 99.5 | 1  |          | 06/24/20 06:23 | 108-67-8    |      |
| Vinyl chloride                 | <39.8   | ug/kg  | 39.8   | 39.8 | 1  |          | 06/24/20 06:23 | 75-01-4     |      |
| m&p-Xylene                     | <24.9   | ug/kg  | 49.7   | 24.9 | 1  |          | 06/24/20 06:23 | 179601-23-1 |      |
| o-Xylene                       | <24.9   | ug/kg  | 49.7   | 24.9 | 1  |          | 06/24/20 06:23 | 95-47-6     |      |
| <b>Surrogates</b>              |         |  |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)       | 107     | %  | 62-137 |      | 1  |          | 06/24/20 06:23 | 1868-53-7   |      |
| Toluene-d8 (S)                 | 99      | %  | 64-139 |      | 1  |          | 06/24/20 06:23 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)       | 105     | %  | 60-142 |      | 1  |          | 06/24/20 06:23 | 460-00-4    |      |
| <b>Percent Moisture</b>        |         | Analytical Method: SM 2540G<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Percent Moisture               | 6.5     | %  | 0.10   | 0.10 | 1  |          | 06/23/20 13:46 |             |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

Sample: MW-127 (6-7) Lab ID: 50260268007 Collected: 06/15/20 11:30 Received: 06/18/20 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters  | Results | Units | PQL   | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|-------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                           |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |       |    |                |                |           |      |
| n-Butanol   | <4990   | ug/kg | 4990  | 4990  | 1  |                | 06/22/20 16:52 | 71-36-3   |      |
| Ethanol   | <2830   | ug/kg | 2830  | 2830  | 1  |                | 06/22/20 16:52 | 64-17-5   |      |
| Methanol  | <4990   | ug/kg | 4990  | 4990  | 1  |                | 06/22/20 16:52 | 67-56-1   |      |
| <b>6010 MET ICP</b>                                       |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050  |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |       |    |                |                |           |      |
| Antimony  | <1040   | ug/kg | 1040  | 1040  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7440-36-0 |      |
| Arsenic   | <2080   | ug/kg | 2080  | 2080  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7440-38-2 |      |
| Barium  | 7000    | ug/kg | 1040  | 1040  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7440-39-3 |      |
| Beryllium   | <519    | ug/kg | 519   | 519   | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7440-41-7 |      |
| Boron   | <8310   | ug/kg | 8310  | 8310  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7440-42-8 |      |
| Calcium   | 842000  | ug/kg | 51900 | 6880  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7440-70-2 |      |
| Chromium  | 4330    | ug/kg | 2080  | 2080  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7440-47-3 |      |
| Copper  | 2060    | ug/kg | 1040  | 1040  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7440-50-8 |      |
| Iron  | 2510000 | ug/kg | 26000 | 7890  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7439-89-6 |      |
| Lead  | <10400  | ug/kg | 10400 | 10400 | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7439-92-1 |      |
| Magnesium   | 785000  | ug/kg | 26000 | 4150  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7439-95-4 |      |
| Manganese   | 29500   | ug/kg | 1040  | 1040  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7439-96-5 |      |
| Molybdenum  | <1040   | ug/kg | 1040  | 1040  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7439-98-7 |      |
| Nickel  | 3670    | ug/kg | 1040  | 1040  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7440-02-0 |      |
| Potassium   | 184000  | ug/kg | 51900 | 5080  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7440-09-7 |      |
| Sodium  | 28900   | ug/kg | 26000 | 14100 | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7440-23-5 |      |
| Strontium   | <5190   | ug/kg | 5190  | 5190  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7440-24-6 |      |
| Vanadium  | 5740    | ug/kg | 1040  | 1040  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7440-62-2 |      |
| Zinc  | 7580    | ug/kg | 1040  | 1040  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7440-66-6 |      |
| <b>6020 MET ICPMS</b>                                     |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |       |    |                |                |           |      |
| Aluminum  | 2480000 | ug/kg | 56100 | 56100 | 50 | 06/24/20 09:22 | 06/30/20 01:13 | 7429-90-5 |      |
| Cadmium   | <224    | ug/kg | 224   | 224   | 1  | 06/24/20 09:22 | 06/25/20 15:12 | 7440-43-9 |      |
| Cobalt  | 1190    | ug/kg | 561   | 561   | 1  | 06/24/20 09:22 | 06/25/20 15:12 | 7440-48-4 |      |
| Selenium  | <224    | ug/kg | 224   | 224   | 1  | 06/24/20 09:22 | 06/25/20 15:12 | 7782-49-2 |      |
| Silver  | <112    | ug/kg | 112   | 112   | 1  | 06/24/20 09:22 | 06/25/20 15:12 | 7440-22-4 |      |
| Thallium  | <561    | ug/kg | 561   | 561   | 1  | 06/24/20 09:22 | 06/25/20 15:12 | 7440-28-0 |      |
| Titanium  | 204000  | ug/kg | 5610  | 1490  | 50 | 06/24/20 09:22 | 06/30/20 01:13 | 7440-32-6 | N2   |
| <b>7471 Mercury</b>                                       |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471  |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |       |    |                |                |           |      |
| Mercury   | <85.9   | ug/kg | 109   | 85.9  | 1  | 06/26/20 02:49 | 06/26/20 07:30 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                  |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546  |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |       |    |                |                |           |      |
| Acenaphthene  | <366    | ug/kg | 366   | 366   | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 83-32-9   |      |
| Acenaphthylene  | <366    | ug/kg | 366   | 366   | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 208-96-8  |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

**Sample: MW-127 (6-7)**      **Lab ID: 50260268007**      Collected: 06/15/20 11:30      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                 |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |      |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |      |      |    |                |                |           |      |
| Anthracene   | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 120-12-7  |      |
| Benzo(a)anthracene                                       | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 56-55-3   |      |
| Benzo(a)pyrene   | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 50-32-8   |      |
| Benzo(b)fluoranthene                                     | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 205-99-2  |      |
| Benzo(g,h,i)perylene                                     | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 191-24-2  |      |
| Benzo(k)fluoranthene                                     | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 207-08-9  |      |
| 4-Bromophenylphenyl ether                                | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 101-55-3  |      |
| Butylbenzylphthalate                                     | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 85-68-7   |      |
| Carbazole  | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                  | <310    | ug/kg | 366  | 310  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                               | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                 | <177    | ug/kg | 366  | 177  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                             | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 108-60-1  |      |
| 2-Chloronaphthalene                                      | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 91-58-7   |      |
| 2-Chlorophenol   | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                               | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 7005-72-3 |      |
| Chrysene   | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                    | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 53-70-3   |      |
| Dibenzofuran   | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 132-64-9  |      |
| 2,4-Dichlorophenol                                       | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 120-83-2  |      |
| Diethylphthalate   | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 84-66-2   |      |
| 2,4-Dimethylphenol                                       | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 105-67-9  |      |
| Dimethylphthalate  | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 131-11-3  |      |
| Di-n-butylphthalate                                      | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                               | <920    | ug/kg | 920  | 920  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 534-52-1  |      |
| 2,4-Dinitrophenol  | <1770   | ug/kg | 1770 | 1770 | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 51-28-5   |      |
| 2,4-Dinitrotoluene                                       | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 121-14-2  |      |
| 2,6-Dinitrotoluene                                       | <98.1   | ug/kg | 366  | 98.1 | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 606-20-2  |      |
| Di-n-octylphthalate                                      | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                    | <1770   | ug/kg | 1770 | 1770 | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate                               | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 117-81-7  |      |
| Fluoranthene   | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 206-44-0  |      |
| Fluorene   | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                 | <106    | ug/kg | 366  | 106  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 87-68-3   |      |
| Hexachlorobenzene  | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                | <1110   | ug/kg | 1110 | 1110 | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 77-47-4   |      |
| Hexachloroethane   | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                   | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 193-39-5  |      |
| Isophorone   | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 78-59-1   |      |
| 2-Methylnaphthalene                                      | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                 | <1110   | ug/kg | 1110 | 1110 | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                             | <1110   | ug/kg | 1110 | 1110 | 1  | 06/23/20 12:30 | 06/24/20 13:32 |           |      |
| Naphthalene  | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 91-20-3   |      |
| 2-Nitroaniline   | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 88-74-4   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

**Sample: MW-127 (6-7)**      **Lab ID: 50260268007**      Collected: 06/15/20 11:30      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                    |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| 3-Nitroaniline  | <366    | ug/kg | 366    | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 99-09-2   |      |
| 4-Nitroaniline  | <366    | ug/kg | 366    | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 100-01-6  |      |
| Nitrobenzene  | <366    | ug/kg | 366    | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 98-95-3   |      |
| 2-Nitrophenol   | <366    | ug/kg | 366    | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 88-75-5   |      |
| 4-Nitrophenol   | <1770   | ug/kg | 1770   | 1770 | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 100-02-7  |      |
| N-Nitrosodimethylamine                                      | <366    | ug/kg | 366    | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                                  | <366    | ug/kg | 366    | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                      | <366    | ug/kg | 366    | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 86-30-6   |      |
| Pentachlorophenol   | <1630   | ug/kg | 1770   | 1630 | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 87-86-5   |      |
| Phenanthrene  | <366    | ug/kg | 366    | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 85-01-8   |      |
| Phenol  | <366    | ug/kg | 366    | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 108-95-2  |      |
| Pyrene  | <366    | ug/kg | 366    | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                      | <366    | ug/kg | 366    | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                       | <366    | ug/kg | 366    | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                       | <366    | ug/kg | 366    | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 88-06-2   |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)   | 63      | %     | 26-96  |      | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 4165-60-0 |      |
| Phenol-d5 (S)   | 82      | %     | 32-93  |      | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 4165-62-2 |      |
| 2-Fluorophenol (S)  | 87      | %     | 24-95  |      | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                    | 78      | %     | 20-109 |      | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 118-79-6  |      |
| 2-Fluorobiphenyl (S)  | 79      | %     | 36-91  |      | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 91      | %     | 27-117 |      | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                              |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                                 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| Acetone   | <1220   | ug/kg | 1220   | 1220 | 1  |                | 06/24/20 06:56 | 67-64-1   |      |
| Acrylonitrile   | <122    | ug/kg | 122    | 122  | 1  |                | 06/24/20 06:56 | 107-13-1  |      |
| tert-Amylmethyl ether                                       | <306    | ug/kg | 306    | 306  | 1  |                | 06/24/20 06:56 | 994-05-8  | N2   |
| Benzene   | <61.2   | ug/kg | 61.2   | 61.2 | 1  |                | 06/24/20 06:56 | 71-43-2   |      |
| Bromobenzene  | <122    | ug/kg | 122    | 122  | 1  |                | 06/24/20 06:56 | 108-86-1  |      |
| Bromochloromethane  | <30.6   | ug/kg | 61.2   | 30.6 | 1  |                | 06/24/20 06:56 | 74-97-5   |      |
| Bromodichloromethane  | <122    | ug/kg | 122    | 122  | 1  |                | 06/24/20 06:56 | 75-27-4   |      |
| Bromoform   | <122    | ug/kg | 122    | 122  | 1  |                | 06/24/20 06:56 | 75-25-2   |      |
| Bromomethane  | <245    | ug/kg | 245    | 245  | 1  |                | 06/24/20 06:56 | 74-83-9   |      |
| 2-Butanone (MEK)  | <918    | ug/kg | 918    | 918  | 1  |                | 06/24/20 06:56 | 78-93-3   |      |
| tert-Butyl Alcohol  | <3060   | ug/kg | 3060   | 3060 | 1  |                | 06/24/20 06:56 | 75-65-0   |      |
| n-Butylbenzene  | <61.2   | ug/kg | 61.2   | 61.2 | 1  |                | 06/24/20 06:56 | 104-51-8  |      |
| sec-Butylbenzene  | <61.2   | ug/kg | 61.2   | 61.2 | 1  |                | 06/24/20 06:56 | 135-98-8  |      |
| tert-Butylbenzene   | <61.2   | ug/kg | 61.2   | 61.2 | 1  |                | 06/24/20 06:56 | 98-06-6   |      |
| Carbon disulfide  | <306    | ug/kg | 306    | 306  | 1  |                | 06/24/20 06:56 | 75-15-0   |      |
| Carbon tetrachloride  | <61.2   | ug/kg | 61.2   | 61.2 | 1  |                | 06/24/20 06:56 | 56-23-5   |      |
| Chlorobenzene   | <61.2   | ug/kg | 61.2   | 61.2 | 1  |                | 06/24/20 06:56 | 108-90-7  |      |
| Chloroethane  | <306    | ug/kg | 306    | 306  | 1  |                | 06/24/20 06:56 | 75-00-3   |      |
| Chloroform  | <61.2   | ug/kg | 61.2   | 61.2 | 1  |                | 06/24/20 06:56 | 67-66-3   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-127 (6-7)**      **Lab ID: 50260268007**      Collected: 06/15/20 11:30      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Chloromethane                  | <306    | ug/kg  | 306  | 306  | 1  |          | 06/24/20 06:56 | 74-87-3    |      |
| Cyclohexane                    | <612    | ug/kg  | 612  | 612  | 1  |          | 06/24/20 06:56 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <61.2   | ug/kg  | 61.2 | 61.2 | 1  |          | 06/24/20 06:56 | 96-12-8    |      |
| Dibromochloromethane           | <122    | ug/kg  | 122  | 122  | 1  |          | 06/24/20 06:56 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <61.2   | ug/kg  | 61.2 | 61.2 | 1  |          | 06/24/20 06:56 | 106-93-4   |      |
| Dibromomethane                 | <306    | ug/kg  | 306  | 306  | 1  |          | 06/24/20 06:56 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <122    | ug/kg  | 122  | 122  | 1  |          | 06/24/20 06:56 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <122    | ug/kg  | 122  | 122  | 1  |          | 06/24/20 06:56 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <122    | ug/kg  | 122  | 122  | 1  |          | 06/24/20 06:56 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <122    | ug/kg  | 1220 | 122  | 1  |          | 06/24/20 06:56 | 110-57-6   |      |
| Dichlorodifluoromethane        | <306    | ug/kg  | 306  | 306  | 1  |          | 06/24/20 06:56 | 75-71-8    |      |
| 1,1-Dichloroethane             | <61.2   | ug/kg  | 61.2 | 61.2 | 1  |          | 06/24/20 06:56 | 75-34-3    |      |
| 1,2-Dichloroethane             | <61.2   | ug/kg  | 61.2 | 61.2 | 1  |          | 06/24/20 06:56 | 107-06-2   |      |
| 1,1-Dichloroethene             | <61.2   | ug/kg  | 61.2 | 61.2 | 1  |          | 06/24/20 06:56 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <61.2   | ug/kg  | 61.2 | 61.2 | 1  |          | 06/24/20 06:56 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <61.2   | ug/kg  | 61.2 | 61.2 | 1  |          | 06/24/20 06:56 | 156-60-5   |      |
| 1,2-Dichloropropane            | <61.2   | ug/kg  | 61.2 | 61.2 | 1  |          | 06/24/20 06:56 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <122    | ug/kg  | 122  | 122  | 1  |          | 06/24/20 06:56 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <122    | ug/kg  | 122  | 122  | 1  |          | 06/24/20 06:56 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <245    | ug/kg  | 245  | 245  | 1  |          | 06/24/20 06:56 | 60-29-7    |      |
| Diisopropyl ether              | <306    | ug/kg  | 306  | 306  | 1  |          | 06/24/20 06:56 | 108-20-3   | N2   |
| Ethylbenzene                   | <61.2   | ug/kg  | 61.2 | 61.2 | 1  |          | 06/24/20 06:56 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <306    | ug/kg  | 306  | 306  | 1  |          | 06/24/20 06:56 | 637-92-3   | N2   |
| Hexachloroethane               | <367    | ug/kg  | 367  | 367  | 1  |          | 06/24/20 06:56 | 67-72-1    | N2   |
| 2-Hexanone                     | <3060   | ug/kg  | 3060 | 3060 | 1  |          | 06/24/20 06:56 | 591-78-6   |      |
| Iodomethane                    | <122    | ug/kg  | 1220 | 122  | 1  |          | 06/24/20 06:56 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <306    | ug/kg  | 306  | 306  | 1  |          | 06/24/20 06:56 | 98-82-8    |      |
| p-Isopropyltoluene             | <30.6   | ug/kg  | 61.2 | 30.6 | 1  |          | 06/24/20 06:56 | 99-87-6    |      |
| Methylene Chloride             | <122    | ug/kg  | 122  | 122  | 1  |          | 06/24/20 06:56 | 75-09-2    |      |
| 2-Methylnaphthalene            | <404    | ug/kg  | 404  | 404  | 1  |          | 06/24/20 06:56 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)    | <3060   | ug/kg  | 3060 | 3060 | 1  |          | 06/24/20 06:56 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <306    | ug/kg  | 306  | 306  | 1  |          | 06/24/20 06:56 | 1634-04-4  |      |
| Naphthalene                    | <404    | ug/kg  | 404  | 404  | 1  |          | 06/24/20 06:56 | 91-20-3    |      |
| n-Propylbenzene                | <122    | ug/kg  | 122  | 122  | 1  |          | 06/24/20 06:56 | 103-65-1   |      |
| Styrene                        | <61.2   | ug/kg  | 61.2 | 61.2 | 1  |          | 06/24/20 06:56 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <122    | ug/kg  | 122  | 122  | 1  |          | 06/24/20 06:56 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane      | <61.2   | ug/kg  | 61.2 | 61.2 | 1  |          | 06/24/20 06:56 | 79-34-5    |      |
| Tetrachloroethene              | <61.2   | ug/kg  | 61.2 | 61.2 | 1  |          | 06/24/20 06:56 | 127-18-4   |      |
| Tetrahydrofuran                | <1220   | ug/kg  | 1220 | 1220 | 1  |          | 06/24/20 06:56 | 109-99-9   | N2   |
| Toluene                        | <122    | ug/kg  | 122  | 122  | 1  |          | 06/24/20 06:56 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene         | <306    | ug/kg  | 306  | 306  | 1  |          | 06/24/20 06:56 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene         | <306    | ug/kg  | 306  | 306  | 1  |          | 06/24/20 06:56 | 120-82-1   |      |
| 1,1,1-Trichloroethane          | <61.2   | ug/kg  | 61.2 | 61.2 | 1  |          | 06/24/20 06:56 | 71-55-6    |      |
| 1,1,2-Trichloroethane          | <61.2   | ug/kg  | 61.2 | 61.2 | 1  |          | 06/24/20 06:56 | 79-00-5    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-127 (6-7)**      **Lab ID: 50260268007**      Collected: 06/15/20 11:30      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|---------|--|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Trichloroethene                | <61.2   | ug/kg  | 61.2   | 61.2 | 1  |          | 06/24/20 06:56 | 79-01-6     |      |
| Trichlorofluoromethane         | <122    | ug/kg  | 122    | 122  | 1  |          | 06/24/20 06:56 | 75-69-4     |      |
| 1,2,3-Trichloropropane         | <122    | ug/kg  | 122    | 122  | 1  |          | 06/24/20 06:56 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene         | <306    | ug/kg  | 306    | 306  | 1  |          | 06/24/20 06:56 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene         | <122    | ug/kg  | 122    | 122  | 1  |          | 06/24/20 06:56 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | <122    | ug/kg  | 122    | 122  | 1  |          | 06/24/20 06:56 | 108-67-8    |      |
| Vinyl chloride                 | <49.0   | ug/kg  | 49.0   | 49.0 | 1  |          | 06/24/20 06:56 | 75-01-4     |      |
| m&p-Xylene                     | <30.6   | ug/kg  | 61.2   | 30.6 | 1  |          | 06/24/20 06:56 | 179601-23-1 |      |
| o-Xylene                       | <30.6   | ug/kg  | 61.2   | 30.6 | 1  |          | 06/24/20 06:56 | 95-47-6     |      |
| <b>Surrogates</b>              |         |  |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)       | 115     | %  | 62-137 |      | 1  |          | 06/24/20 06:56 | 1868-53-7   |      |
| Toluene-d8 (S)                 | 114     | %  | 64-139 |      | 1  |          | 06/24/20 06:56 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)       | 117     | %  | 60-142 |      | 1  |          | 06/24/20 06:56 | 460-00-4    |      |
| <b>Percent Moisture</b>        |         | Analytical Method: SM 2540G<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Percent Moisture               | 11.8    | %  | 0.10   | 0.10 | 1  |          | 06/23/20 14:20 |             |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-127 (10-11')**      **Lab ID: 50260268008**      Collected: 06/15/20 13:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results  | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--|----------|-------|--------|-------|----|----------------|----------------|------------|------|
| <b>8015M Alcohols in solids</b>                                |          |       |        |       |    |                |                |            |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                     |          |       |        |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |       |    |                |                |            |      |
| n-Butanol  | <4770    | ug/kg | 4770   | 4770  | 1  |                | 06/22/20 17:02 | 71-36-3    |      |
| Ethanol  | <2710    | ug/kg | 2710   | 2710  | 1  |                | 06/22/20 17:02 | 64-17-5    |      |
| Methanol   | <4770    | ug/kg | 4770   | 4770  | 1  |                | 06/22/20 17:02 | 67-56-1    |      |
| <b>8082 GCS PCB Solids</b>                                     |          |       |        |       |    |                |                |            |      |
| Analytical Method: EPA 8082      Preparation Method: EPA 3546  |          |       |        |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |       |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)  | <358     | ug/kg | 358    | 358   | 1  | 06/24/20 21:50 | 06/25/20 21:37 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)  | <358     | ug/kg | 358    | 358   | 1  | 06/24/20 21:50 | 06/25/20 21:37 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)  | <358     | ug/kg | 358    | 358   | 1  | 06/24/20 21:50 | 06/25/20 21:37 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)  | <358     | ug/kg | 358    | 358   | 1  | 06/24/20 21:50 | 06/25/20 21:37 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)  | <358     | ug/kg | 358    | 358   | 1  | 06/24/20 21:50 | 06/25/20 21:37 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)  | <358     | ug/kg | 358    | 358   | 1  | 06/24/20 21:50 | 06/25/20 21:37 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)  | <358     | ug/kg | 358    | 358   | 1  | 06/24/20 21:50 | 06/25/20 21:37 | 11096-82-5 |      |
| PCB-1262 (Aroclor 1262)  | <358     | ug/kg | 358    | 358   | 1  | 06/24/20 21:50 | 06/25/20 21:37 | 37324-23-5 | N2   |
| PCB-1268 (Aroclor 1268)  | <358     | ug/kg | 358    | 358   | 1  | 06/24/20 21:50 | 06/25/20 21:37 | 11100-14-4 | N2   |
| <b>Surrogates</b>  |          |       |        |       |    |                |                |            |      |
| Tetrachloro-m-xylene (S)                                       | 53       | %     | 25-123 |       | 1  | 06/24/20 21:50 | 06/25/20 21:37 | 877-09-8   |      |
| <b>6010 MET ICP</b>  |          |       |        |       |    |                |                |            |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050  |          |       |        |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |       |    |                |                |            |      |
| Antimony   | <1060    | ug/kg | 1060   | 1060  | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7440-36-0  |      |
| Arsenic  | <2120    | ug/kg | 2120   | 2120  | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7440-38-2  |      |
| Barium   | 4410     | ug/kg | 1060   | 1060  | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7440-39-3  |      |
| Beryllium  | <529     | ug/kg | 529    | 529   | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7440-41-7  |      |
| Boron  | <8470    | ug/kg | 8470   | 8470  | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7440-42-8  |      |
| Calcium  | 28100000 | ug/kg | 265000 | 35100 | 5  | 06/26/20 14:44 | 06/29/20 12:47 | 7440-70-2  |      |
| Chromium   | 3580     | ug/kg | 2120   | 2120  | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7440-47-3  |      |
| Copper   | 2810     | ug/kg | 1060   | 1060  | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7440-50-8  |      |
| Iron   | 2440000  | ug/kg | 26500  | 8040  | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7439-89-6  |      |
| Lead   | <10600   | ug/kg | 10600  | 10600 | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7439-92-1  |      |
| Magnesium  | 4010000  | ug/kg | 26500  | 4230  | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7439-95-4  |      |
| Manganese  | 61300    | ug/kg | 1060   | 1060  | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7439-96-5  |      |
| Molybdenum   | <1060    | ug/kg | 1060   | 1060  | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7439-98-7  |      |
| Nickel   | 4460     | ug/kg | 1060   | 1060  | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7440-02-0  |      |
| Potassium  | 195000   | ug/kg | 52900  | 5170  | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7440-09-7  |      |
| Sodium   | 56800    | ug/kg | 26500  | 14400 | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7440-23-5  |      |
| Strontium  | 24900    | ug/kg | 5290   | 5290  | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7440-24-6  |      |
| Vanadium   | 10200    | ug/kg | 1060   | 1060  | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7440-62-2  |      |
| Zinc   | 6750     | ug/kg | 1060   | 1060  | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7440-66-6  |      |
| <b>6020 MET ICPMS</b>  |          |       |        |       |    |                |                |            |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B |          |       |        |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |       |    |                |                |            |      |
| Aluminum   | 1630000  | ug/kg | 53000  | 53000 | 50 | 06/24/20 09:22 | 06/30/20 01:18 | 7429-90-5  |      |
| Cadmium  | <212     | ug/kg | 212    | 212   | 1  | 06/24/20 09:22 | 06/25/20 15:26 | 7440-43-9  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-127 (10-11')**      **Lab ID: 50260268008**      Collected: 06/15/20 13:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL   | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|-------|-------|----|----------------|----------------|-----------|------|
| <b>6020 MET ICPMS</b>                                     |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |       |    |                |                |           |      |
| Cobalt  | 1150    | ug/kg | 530   | 530   | 1  | 06/24/20 09:22 | 06/25/20 15:26 | 7440-48-4 |      |
| Selenium  | <212    | ug/kg | 212   | 212   | 1  | 06/24/20 09:22 | 06/25/20 15:26 | 7782-49-2 |      |
| Silver  | <106    | ug/kg | 106   | 106   | 1  | 06/24/20 09:22 | 06/25/20 15:26 | 7440-22-4 |      |
| Thallium  | <530    | ug/kg | 530   | 530   | 1  | 06/24/20 09:22 | 06/25/20 15:26 | 7440-28-0 |      |
| Titanium  | 175000  | ug/kg | 5300  | 1410  | 50 | 06/24/20 09:22 | 06/30/20 01:18 | 7440-32-6 | N2   |
| <b>7471 Mercury</b>                                       |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471  |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |       |    |                |                |           |      |
| Mercury   | <84.5   | ug/kg | 107   | 84.5  | 1  | 06/26/20 02:49 | 06/26/20 07:33 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                  |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546  |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |       |    |                |                |           |      |
| Acenaphthene  | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 83-32-9   |      |
| Acenaphthylene  | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 208-96-8  |      |
| Anthracene  | 9250    | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 120-12-7  |      |
| Benzo(a)anthracene  | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 56-55-3   |      |
| Benzo(a)pyrene  | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 50-32-8   |      |
| Benzo(b)fluoranthene                                      | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 205-99-2  |      |
| Benzo(g,h,i)perylene                                      | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 191-24-2  |      |
| Benzo(k)fluoranthene                                      | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 207-08-9  |      |
| 4-Bromophenylphenyl ether                                 | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 101-55-3  |      |
| Butylbenzylphthalate                                      | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 85-68-7   |      |
| Carbazole   | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                   | <7540   | ug/kg | 8880  | 7540  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                                | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                  | <4310   | ug/kg | 8880  | 4310  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                              | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 108-60-1  |      |
| 2-Chloronaphthalene                                       | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 91-58-7   |      |
| 2-Chlorophenol  | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                                | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 7005-72-3 |      |
| Chrysene  | 11600   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                     | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 53-70-3   |      |
| Dibenzofuran  | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 132-64-9  |      |
| 2,4-Dichlorophenol  | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 120-83-2  |      |
| Diethylphthalate  | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 84-66-2   |      |
| 2,4-Dimethylphenol  | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 105-67-9  |      |
| Dimethylphthalate   | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 131-11-3  |      |
| Di-n-butylphthalate                                       | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                                | <22300  | ug/kg | 22300 | 22300 | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 534-52-1  |      |
| 2,4-Dinitrophenol   | <43100  | ug/kg | 43100 | 43100 | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 51-28-5   |      |
| 2,4-Dinitrotoluene  | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 121-14-2  |      |
| 2,6-Dinitrotoluene  | <2380   | ug/kg | 8880  | 2380  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 606-20-2  |      |
| Di-n-octylphthalate                                       | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                     | <43100  | ug/kg | 43100 | 43100 | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 122-66-7  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

Sample: MW-127 (10-11') Lab ID: 50260268008 Collected: 06/15/20 13:00 Received: 06/18/20 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters   | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                 |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |        |       |    |                |                |           |      |
| bis(2-Ethylhexyl)phthalate                               | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 117-81-7  |      |
| Fluoranthene   | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 206-44-0  |      |
| Fluorene   | 16500   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                 | <2580   | ug/kg | 8880   | 2580  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 87-68-3   |      |
| Hexachlorobenzene  | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                | <26900  | ug/kg | 26900  | 26900 | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 77-47-4   |      |
| Hexachloroethane   | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                   | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 193-39-5  |      |
| Isophorone   | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 78-59-1   |      |
| 2-Methylnaphthalene                                      | 61800   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                 | <26900  | ug/kg | 26900  | 26900 | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                             | <26900  | ug/kg | 26900  | 26900 | 5  | 06/23/20 12:30 | 06/24/20 13:49 |           |      |
| Naphthalene  | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 91-20-3   |      |
| 2-Nitroaniline   | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 88-74-4   |      |
| 3-Nitroaniline   | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 99-09-2   |      |
| 4-Nitroaniline   | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 100-01-6  |      |
| Nitrobenzene   | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 98-95-3   |      |
| 2-Nitrophenol  | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 88-75-5   |      |
| 4-Nitrophenol  | <43100  | ug/kg | 43100  | 43100 | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 100-02-7  |      |
| N-Nitrosodimethylamine                                   | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                               | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                   | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 86-30-6   |      |
| Pentachlorophenol  | <39600  | ug/kg | 43100  | 39600 | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 87-86-5   |      |
| Phenanthrene   | 68700   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 85-01-8   |      |
| Phenol   | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 108-95-2  | ED   |
| Pyrene   | 23800   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                   | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                    | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                    | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| Nitrobenzene-d5 (S)                                      | 0       | %     | 26-96  |       | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 4165-60-0 | S4   |
| Phenol-d5 (S)  | 0       | %     | 32-93  |       | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 4165-62-2 | S4   |
| 2-Fluorophenol (S)                                       | 0       | %     | 24-95  |       | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 367-12-4  | S4   |
| 2,4,6-Tribromophenol (S)                                 | 54      | %     | 20-109 |       | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 118-79-6  |      |
| 2-Fluorobiphenyl (S)                                     | 86      | %     | 36-91  |       | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 321-60-8  |      |
| p-Terphenyl-d14 (S)                                      | 74      | %     | 27-117 |       | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 1718-51-0 |      |
| <b>Tentatively Identified Compounds</b>                  |         |       |        |       |    |                |                |           |      |
| Naphthalene, 1-ethyl-                                    | 51900J  | ug/kg |        |       | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 1127-76-0 | N    |
| Naphthalene, 2,6-dimethy                                 | 147000J | ug/kg |        |       | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 581-42-0  | N    |
| Naphthalene, 1,3-dimethy                                 | 172000J | ug/kg |        |       | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 575-41-7  | N    |
| Naphthalene, 1,7-dimethy                                 | 96100J  | ug/kg |        |       | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 575-37-1  | N    |
| Naphthalene, 2,3-dimethy                                 | 74500J  | ug/kg |        |       | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 581-40-8  | N    |
| Naphthalene, 2,3-dimethy                                 | 31100J  | ug/kg |        |       | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 581-40-8  | N    |
| Naphthalene, 2-(1-methyl                                 | 95800J  | ug/kg |        |       | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 2027-17-0 | N    |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-127 (10-11')**      **Lab ID: 50260268008**      Collected: 06/15/20 13:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|-----|-----|----|----------|----------|---------|------|
|------------|---------|-------|-----|-----|----|----------|----------|---------|------|

**8270 SVOC SS Soil**      Analytical Method: EPA 8270      Preparation Method: EPA 3546  
Pace Analytical Services - Indianapolis

***Tentatively Identified Compounds***

|                          |        |       |  |  |   |                |                |            |   |
|--------------------------|--------|-------|--|--|---|----------------|----------------|------------|---|
| Naphthalene, 2,3,6-trime | 64600J | ug/kg |  |  | 5 | 06/23/20 12:30 | 06/24/20 13:49 | 829-26-5   | N |
| Naphthalene, 2,3,6-trime | 52700J | ug/kg |  |  | 5 | 06/23/20 12:30 | 06/24/20 13:49 | 829-26-5   | N |
| Naphthalene, 1,4,6-trime | 43900J | ug/kg |  |  | 5 | 06/23/20 12:30 | 06/24/20 13:49 | 2131-42-2  | N |
| Naphthalene, 1,6,7-trime | 68400J | ug/kg |  |  | 5 | 06/23/20 12:30 | 06/24/20 13:49 | 2245-38-7  | N |
| Benzene, [1-(2,4-cyclo   | 97700J | ug/kg |  |  | 5 | 06/23/20 12:30 | 06/24/20 13:49 | 2320-32-3  | N |
| Naphthalene, 2-methyl-1- | 35600J | ug/kg |  |  | 5 | 06/23/20 12:30 | 06/24/20 13:49 | 54774-89-9 | N |
| Dibenzofuran, 4-methyl-  | 34000J | ug/kg |  |  | 5 | 06/23/20 12:30 | 06/24/20 13:49 | 7320-53-8  | N |
| Unknown                  | 48400J | ug/kg |  |  | 5 | 06/23/20 12:30 | 06/24/20 13:49 |            |   |
| 4,4'-Dimethylbiphenyl    | 55800J | ug/kg |  |  | 5 | 06/23/20 12:30 | 06/24/20 13:49 | 613-33-2   | N |
| Unknown                  | 36500J | ug/kg |  |  | 5 | 06/23/20 12:30 | 06/24/20 13:49 |            |   |
| 9H-Fluorene, 2,3-dimethy | 32800J | ug/kg |  |  | 5 | 06/23/20 12:30 | 06/24/20 13:49 | 4612-63-9  | N |
| Anthracene, 1-methyl-    | 64700J | ug/kg |  |  | 5 | 06/23/20 12:30 | 06/24/20 13:49 | 610-48-0   | N |
| 1H-Indene, 1-phenyl-     | 80400J | ug/kg |  |  | 5 | 06/23/20 12:30 | 06/24/20 13:49 | 1961-96-2  | N |
| Phenanthrene, 4-methyl-  | 52100J | ug/kg |  |  | 5 | 06/23/20 12:30 | 06/24/20 13:49 | 832-64-4   | N |
| 2,8-Dimethyldibenzo(B,D) | 32900J | ug/kg |  |  | 5 | 06/23/20 12:30 | 06/24/20 13:49 | 1207-15-4  | N |
| Phenanthrene, 4,5-dimeth | 38200J | ug/kg |  |  | 5 | 06/23/20 12:30 | 06/24/20 13:49 | 3674-69-9  | N |
| Phenanthrene, 3,6-dimeth | 48800J | ug/kg |  |  | 5 | 06/23/20 12:30 | 06/24/20 13:49 | 1576-67-6  | N |
| Phenanthrene, 2,5-dimeth | 86700J | ug/kg |  |  | 5 | 06/23/20 12:30 | 06/24/20 13:49 | 3674-66-6  | N |
| Unknown                  | 45700J | ug/kg |  |  | 5 | 06/23/20 12:30 | 06/24/20 13:49 |            |   |
| Phenanthrene, 2,3,5-trim | 16700J | ug/kg |  |  | 5 | 06/23/20 12:30 | 06/24/20 13:49 | 3674-73-5  | N |
| Pyrene, 1-methyl-        | 17100J | ug/kg |  |  | 5 | 06/23/20 12:30 | 06/24/20 13:49 | 2381-21-7  | N |
| Pyrene, 1,3-dimethyl-    | 15500J | ug/kg |  |  | 5 | 06/23/20 12:30 | 06/24/20 13:49 | 64401-21-4 | N |
| Unknown                  | 15200J | ug/kg |  |  | 5 | 06/23/20 12:30 | 06/24/20 13:49 |            |   |

**8260MSV 5035S Med Level**      Analytical Method: EPA 8260  
Pace Analytical Services - Indianapolis

|                       |       |       |      |      |   |  |                |          |    |
|-----------------------|-------|-------|------|------|---|--|----------------|----------|----|
| Acetone               | <1070 | ug/kg | 1070 | 1070 | 1 |  | 06/24/20 07:30 | 67-64-1  |    |
| Acrylonitrile         | <107  | ug/kg | 107  | 107  | 1 |  | 06/24/20 07:30 | 107-13-1 |    |
| tert-Amylmethyl ether | <267  | ug/kg | 267  | 267  | 1 |  | 06/24/20 07:30 | 994-05-8 | N2 |
| Benzene               | <53.5 | ug/kg | 53.5 | 53.5 | 1 |  | 06/24/20 07:30 | 71-43-2  |    |
| Bromobenzene          | <107  | ug/kg | 107  | 107  | 1 |  | 06/24/20 07:30 | 108-86-1 |    |
| Bromochloromethane    | <26.7 | ug/kg | 53.5 | 26.7 | 1 |  | 06/24/20 07:30 | 74-97-5  |    |
| Bromodichloromethane  | <107  | ug/kg | 107  | 107  | 1 |  | 06/24/20 07:30 | 75-27-4  |    |
| Bromoform             | <107  | ug/kg | 107  | 107  | 1 |  | 06/24/20 07:30 | 75-25-2  |    |
| Bromomethane          | <214  | ug/kg | 214  | 214  | 1 |  | 06/24/20 07:30 | 74-83-9  |    |
| 2-Butanone (MEK)      | <802  | ug/kg | 802  | 802  | 1 |  | 06/24/20 07:30 | 78-93-3  |    |
| tert-Butyl Alcohol    | <2670 | ug/kg | 2670 | 2670 | 1 |  | 06/24/20 07:30 | 75-65-0  |    |
| n-Butylbenzene        | <53.5 | ug/kg | 53.5 | 53.5 | 1 |  | 06/24/20 07:30 | 104-51-8 |    |
| sec-Butylbenzene      | <53.5 | ug/kg | 53.5 | 53.5 | 1 |  | 06/24/20 07:30 | 135-98-8 |    |
| tert-Butylbenzene     | <53.5 | ug/kg | 53.5 | 53.5 | 1 |  | 06/24/20 07:30 | 98-06-6  |    |
| Carbon disulfide      | <267  | ug/kg | 267  | 267  | 1 |  | 06/24/20 07:30 | 75-15-0  |    |
| Carbon tetrachloride  | <53.5 | ug/kg | 53.5 | 53.5 | 1 |  | 06/24/20 07:30 | 56-23-5  |    |
| Chlorobenzene         | <53.5 | ug/kg | 53.5 | 53.5 | 1 |  | 06/24/20 07:30 | 108-90-7 |    |

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

Sample: MW-127 (10-11') Lab ID: 50260268008 Collected: 06/15/20 13:00 Received: 06/18/20 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Chloroethane                   | <267    | ug/kg  | 267  | 267  | 1  |          | 06/24/20 07:30 | 75-00-3    |      |
| Chloroform                     | <53.5   | ug/kg  | 53.5 | 53.5 | 1  |          | 06/24/20 07:30 | 67-66-3    |      |
| Chloromethane                  | <267    | ug/kg  | 267  | 267  | 1  |          | 06/24/20 07:30 | 74-87-3    |      |
| Cyclohexane                    | <535    | ug/kg  | 535  | 535  | 1  |          | 06/24/20 07:30 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <53.5   | ug/kg  | 53.5 | 53.5 | 1  |          | 06/24/20 07:30 | 96-12-8    |      |
| Dibromochloromethane           | <107    | ug/kg  | 107  | 107  | 1  |          | 06/24/20 07:30 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <53.5   | ug/kg  | 53.5 | 53.5 | 1  |          | 06/24/20 07:30 | 106-93-4   |      |
| Dibromomethane                 | <267    | ug/kg  | 267  | 267  | 1  |          | 06/24/20 07:30 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <107    | ug/kg  | 107  | 107  | 1  |          | 06/24/20 07:30 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <107    | ug/kg  | 107  | 107  | 1  |          | 06/24/20 07:30 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <107    | ug/kg  | 107  | 107  | 1  |          | 06/24/20 07:30 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <107    | ug/kg  | 1070 | 107  | 1  |          | 06/24/20 07:30 | 110-57-6   |      |
| Dichlorodifluoromethane        | <267    | ug/kg  | 267  | 267  | 1  |          | 06/24/20 07:30 | 75-71-8    |      |
| 1,1-Dichloroethane             | <53.5   | ug/kg  | 53.5 | 53.5 | 1  |          | 06/24/20 07:30 | 75-34-3    |      |
| 1,2-Dichloroethane             | <53.5   | ug/kg  | 53.5 | 53.5 | 1  |          | 06/24/20 07:30 | 107-06-2   |      |
| 1,1-Dichloroethene             | <53.5   | ug/kg  | 53.5 | 53.5 | 1  |          | 06/24/20 07:30 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <53.5   | ug/kg  | 53.5 | 53.5 | 1  |          | 06/24/20 07:30 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <53.5   | ug/kg  | 53.5 | 53.5 | 1  |          | 06/24/20 07:30 | 156-60-5   |      |
| 1,2-Dichloropropane            | <53.5   | ug/kg  | 53.5 | 53.5 | 1  |          | 06/24/20 07:30 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <107    | ug/kg  | 107  | 107  | 1  |          | 06/24/20 07:30 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <107    | ug/kg  | 107  | 107  | 1  |          | 06/24/20 07:30 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <214    | ug/kg  | 214  | 214  | 1  |          | 06/24/20 07:30 | 60-29-7    |      |
| Diisopropyl ether              | <267    | ug/kg  | 267  | 267  | 1  |          | 06/24/20 07:30 | 108-20-3   | N2   |
| Ethylbenzene                   | <53.5   | ug/kg  | 53.5 | 53.5 | 1  |          | 06/24/20 07:30 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <267    | ug/kg  | 267  | 267  | 1  |          | 06/24/20 07:30 | 637-92-3   | N2   |
| Hexachloroethane               | <321    | ug/kg  | 321  | 321  | 1  |          | 06/24/20 07:30 | 67-72-1    | N2   |
| 2-Hexanone                     | <2670   | ug/kg  | 2670 | 2670 | 1  |          | 06/24/20 07:30 | 591-78-6   |      |
| Iodomethane                    | <107    | ug/kg  | 1070 | 107  | 1  |          | 06/24/20 07:30 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <267    | ug/kg  | 267  | 267  | 1  |          | 06/24/20 07:30 | 98-82-8    |      |
| p-Isopropyltoluene             | <26.7   | ug/kg  | 53.5 | 26.7 | 1  |          | 06/24/20 07:30 | 99-87-6    |      |
| Methylene Chloride             | <107    | ug/kg  | 107  | 107  | 1  |          | 06/24/20 07:30 | 75-09-2    |      |
| 2-Methylnaphthalene            | <353    | ug/kg  | 353  | 353  | 1  |          | 06/24/20 07:30 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)    | <2670   | ug/kg  | 2670 | 2670 | 1  |          | 06/24/20 07:30 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <267    | ug/kg  | 267  | 267  | 1  |          | 06/24/20 07:30 | 1634-04-4  |      |
| Naphthalene                    | <353    | ug/kg  | 353  | 353  | 1  |          | 06/24/20 07:30 | 91-20-3    |      |
| n-Propylbenzene                | <107    | ug/kg  | 107  | 107  | 1  |          | 06/24/20 07:30 | 103-65-1   |      |
| Styrene                        | <53.5   | ug/kg  | 53.5 | 53.5 | 1  |          | 06/24/20 07:30 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <107    | ug/kg  | 107  | 107  | 1  |          | 06/24/20 07:30 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane      | <53.5   | ug/kg  | 53.5 | 53.5 | 1  |          | 06/24/20 07:30 | 79-34-5    |      |
| Tetrachloroethene              | <53.5   | ug/kg  | 53.5 | 53.5 | 1  |          | 06/24/20 07:30 | 127-18-4   |      |
| Tetrahydrofuran                | <1070   | ug/kg  | 1070 | 1070 | 1  |          | 06/24/20 07:30 | 109-99-9   | N2   |
| Toluene                        | <107    | ug/kg  | 107  | 107  | 1  |          | 06/24/20 07:30 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene         | <267    | ug/kg  | 267  | 267  | 1  |          | 06/24/20 07:30 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene         | <267    | ug/kg  | 267  | 267  | 1  |          | 06/24/20 07:30 | 120-82-1   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-127 (10-11')**      **Lab ID: 50260268008**      Collected: 06/15/20 13:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| 1,1,1-Trichloroethane                   | <53.5   | ug/kg | 53.5   | 53.5 | 1  |          | 06/24/20 07:30 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <53.5   | ug/kg | 53.5   | 53.5 | 1  |          | 06/24/20 07:30 | 79-00-5     |      |
| Trichloroethene                         | <53.5   | ug/kg | 53.5   | 53.5 | 1  |          | 06/24/20 07:30 | 79-01-6     |      |
| Trichlorofluoromethane                  | <107    | ug/kg | 107    | 107  | 1  |          | 06/24/20 07:30 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <107    | ug/kg | 107    | 107  | 1  |          | 06/24/20 07:30 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <267    | ug/kg | 267    | 267  | 1  |          | 06/24/20 07:30 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <107    | ug/kg | 107    | 107  | 1  |          | 06/24/20 07:30 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <107    | ug/kg | 107    | 107  | 1  |          | 06/24/20 07:30 | 108-67-8    |      |
| Vinyl chloride                          | <42.8   | ug/kg | 42.8   | 42.8 | 1  |          | 06/24/20 07:30 | 75-01-4     |      |
| m&p-Xylene                              | <26.7   | ug/kg | 53.5   | 26.7 | 1  |          | 06/24/20 07:30 | 179601-23-1 |      |
| o-Xylene                                | <26.7   | ug/kg | 53.5   | 26.7 | 1  |          | 06/24/20 07:30 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 107     | %     | 62-137 |      | 1  |          | 06/24/20 07:30 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 101     | %     | 64-139 |      | 1  |          | 06/24/20 07:30 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 109     | %     | 60-142 |      | 1  |          | 06/24/20 07:30 | 460-00-4    |      |
| <b>Percent Moisture</b>                 |         |       |        |      |    |          |                |             |      |
| Analytical Method: SM 2540G             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Percent Moisture                        | 7.7     | %     | 0.10   | 0.10 | 1  |          | 06/23/20 14:20 |             |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-128 (4-5)**      **Lab ID: 50260268009**      Collected: 06/15/20 09:45      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results  | Units | PQL    | MDL    | DF  | Prepared       | Analyzed       | CAS No.    | Qual |
|--|----------|-------|--------|--------|-----|----------------|----------------|------------|------|
| <b>8015M Alcohols in solids</b>                                |          |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                     |          |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |        |     |                |                |            |      |
| n-Butanol  | <5150    | ug/kg | 5150   | 5150   | 1   |                | 06/22/20 17:11 | 71-36-3    |      |
| Ethanol  | <2920    | ug/kg | 2920   | 2920   | 1   |                | 06/22/20 17:11 | 64-17-5    |      |
| Methanol   | <5150    | ug/kg | 5150   | 5150   | 1   |                | 06/22/20 17:11 | 67-56-1    |      |
| <b>8082 GCS PCB Solids</b>                                     |          |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 8082      Preparation Method: EPA 3546  |          |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |        |     |                |                |            |      |
| PCB-1016 (Aroclor 1016)  | <383     | ug/kg | 383    | 383    | 1   | 06/24/20 21:50 | 06/25/20 21:52 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)  | <383     | ug/kg | 383    | 383    | 1   | 06/24/20 21:50 | 06/25/20 21:52 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)  | <383     | ug/kg | 383    | 383    | 1   | 06/24/20 21:50 | 06/25/20 21:52 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)  | <383     | ug/kg | 383    | 383    | 1   | 06/24/20 21:50 | 06/25/20 21:52 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)  | <383     | ug/kg | 383    | 383    | 1   | 06/24/20 21:50 | 06/25/20 21:52 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)  | <383     | ug/kg | 383    | 383    | 1   | 06/24/20 21:50 | 06/25/20 21:52 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)  | <383     | ug/kg | 383    | 383    | 1   | 06/24/20 21:50 | 06/25/20 21:52 | 11096-82-5 |      |
| PCB-1262 (Aroclor 1262)  | <383     | ug/kg | 383    | 383    | 1   | 06/24/20 21:50 | 06/25/20 21:52 | 37324-23-5 | N2   |
| PCB-1268 (Aroclor 1268)  | <383     | ug/kg | 383    | 383    | 1   | 06/24/20 21:50 | 06/25/20 21:52 | 11100-14-4 | N2   |
| <b>Surrogates</b>  |          |       |        |        |     |                |                |            |      |
| Tetrachloro-m-xylene (S)                                       | 57       | %     | 25-123 |        | 1   | 06/24/20 21:50 | 06/25/20 21:52 | 877-09-8   |      |
| <b>6010 MET ICP</b>  |          |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050  |          |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |        |     |                |                |            |      |
| Antimony   | <1080    | ug/kg | 1080   | 1080   | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7440-36-0  |      |
| Arsenic  | 2770     | ug/kg | 2160   | 2160   | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7440-38-2  |      |
| Barium   | 21400    | ug/kg | 1080   | 1080   | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7440-39-3  |      |
| Beryllium  | <539     | ug/kg | 539    | 539    | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7440-41-7  |      |
| Boron  | <8620    | ug/kg | 8620   | 8620   | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7440-42-8  |      |
| Calcium  | 62400000 | ug/kg | 539000 | 71500  | 10  | 06/26/20 14:44 | 06/29/20 12:55 | 7440-70-2  |      |
| Chromium   | 7200     | ug/kg | 2160   | 2160   | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7440-47-3  |      |
| Copper   | 8240     | ug/kg | 1080   | 1080   | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7440-50-8  |      |
| Iron   | 5040000  | ug/kg | 26900  | 8190   | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7439-89-6  |      |
| Lead   | <10800   | ug/kg | 10800  | 10800  | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7439-92-1  |      |
| Magnesium  | 5520000  | ug/kg | 26900  | 4310   | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7439-95-4  |      |
| Manganese  | 110000   | ug/kg | 1080   | 1080   | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7439-96-5  |      |
| Molybdenum   | 1870     | ug/kg | 1080   | 1080   | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7439-98-7  |      |
| Nickel   | 5840     | ug/kg | 1080   | 1080   | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7440-02-0  |      |
| Potassium  | 390000   | ug/kg | 53900  | 5270   | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7440-09-7  |      |
| Sodium   | 90100    | ug/kg | 26900  | 14700  | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7440-23-5  |      |
| Strontium  | 45900    | ug/kg | 5390   | 5390   | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7440-24-6  |      |
| Vanadium   | 12000    | ug/kg | 1080   | 1080   | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7440-62-2  |      |
| Zinc   | 17800    | ug/kg | 1080   | 1080   | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7440-66-6  |      |
| <b>6020 MET ICPMS</b>  |          |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B |          |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |        |     |                |                |            |      |
| Aluminum   | 4160000  | ug/kg | 110000 | 110000 | 100 | 06/24/20 09:22 | 06/30/20 01:22 | 7429-90-5  |      |
| Cadmium  | <220     | ug/kg | 220    | 220    | 1   | 06/24/20 09:22 | 06/25/20 15:35 | 7440-43-9  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-128 (4-5)**      **Lab ID: 50260268009**      Collected: 06/15/20 09:45      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL   | MDL  | DF  | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|-------|------|-----|----------------|----------------|-----------|------|
| <b>6020 MET ICPMS</b>                                     |         |       |       |      |     |                |                |           |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B |         |       |       |      |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |      |     |                |                |           |      |
| Cobalt  | 1520    | ug/kg | 550   | 550  | 1   | 06/24/20 09:22 | 06/25/20 15:35 | 7440-48-4 |      |
| Selenium  | 223     | ug/kg | 220   | 220  | 1   | 06/24/20 09:22 | 06/25/20 15:35 | 7782-49-2 |      |
| Silver  | <110    | ug/kg | 110   | 110  | 1   | 06/24/20 09:22 | 06/25/20 15:35 | 7440-22-4 |      |
| Thallium  | <550    | ug/kg | 550   | 550  | 1   | 06/24/20 09:22 | 06/25/20 15:35 | 7440-28-0 |      |
| Titanium  | 275000  | ug/kg | 11000 | 2920 | 100 | 06/24/20 09:22 | 06/30/20 01:22 | 7440-32-6 | N2   |
| <b>7471 Mercury</b>                                       |         |       |       |      |     |                |                |           |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471  |         |       |       |      |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |      |     |                |                |           |      |
| Mercury   | <95.6   | ug/kg | 121   | 95.6 | 1   | 06/26/20 02:49 | 06/26/20 07:35 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                  |         |       |       |      |     |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546  |         |       |       |      |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |      |     |                |                |           |      |
| Acenaphthene  | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 83-32-9   |      |
| Acenaphthylene  | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 208-96-8  |      |
| Anthracene  | 841     | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 120-12-7  |      |
| Benzo(a)anthracene  | 1510    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 56-55-3   |      |
| Benzo(a)pyrene  | 765     | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 50-32-8   |      |
| Benzo(b)fluoranthene                                      | 1110    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 205-99-2  |      |
| Benzo(g,h,i)perylene                                      | 545     | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 191-24-2  |      |
| Benzo(k)fluoranthene                                      | 496     | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 207-08-9  |      |
| 4-Bromophenylphenyl ether                                 | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 101-55-3  |      |
| Butylbenzylphthalate                                      | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 85-68-7   |      |
| Carbazole   | 620     | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                   | <363    | ug/kg | 427   | 363  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                                | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                  | <207    | ug/kg | 427   | 207  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                              | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 108-60-1  |      |
| 2-Chloronaphthalene                                       | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 91-58-7   |      |
| 2-Chlorophenol  | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                                | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 7005-72-3 |      |
| Chrysene  | 1280    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                     | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 53-70-3   |      |
| Dibenzofuran  | 988     | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 132-64-9  |      |
| 2,4-Dichlorophenol  | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 120-83-2  |      |
| Diethylphthalate  | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 84-66-2   |      |
| 2,4-Dimethylphenol  | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 105-67-9  |      |
| Dimethylphthalate   | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 131-11-3  |      |
| Di-n-butylphthalate                                       | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                                | <1070   | ug/kg | 1070  | 1070 | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 534-52-1  |      |
| 2,4-Dinitrophenol   | <2070   | ug/kg | 2070  | 2070 | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 51-28-5   |      |
| 2,4-Dinitrotoluene  | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 121-14-2  |      |
| 2,6-Dinitrotoluene  | <115    | ug/kg | 427   | 115  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 606-20-2  |      |
| Di-n-octylphthalate                                       | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                     | <2070   | ug/kg | 2070  | 2070 | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 122-66-7  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-128 (4-5)**      **Lab ID: 50260268009**      Collected: 06/15/20 09:45      Received: 06/18/20 09:25      Matrix: Solid  
*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                    |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| bis(2-Ethylhexyl)phthalate                                  | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 117-81-7  |      |
| Fluoranthene  | 5490    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 206-44-0  |      |
| Fluorene  | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                    | <124    | ug/kg | 427    | 124  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 87-68-3   |      |
| Hexachlorobenzene   | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                   | <1290   | ug/kg | 1290   | 1290 | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 77-47-4   |      |
| Hexachloroethane  | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                      | 454     | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 193-39-5  |      |
| Isophorone  | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 78-59-1   |      |
| 2-Methylnaphthalene   | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                    | <1290   | ug/kg | 1290   | 1290 | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                                | <1290   | ug/kg | 1290   | 1290 | 1  | 06/26/20 14:45 | 06/29/20 23:27 |           |      |
| Naphthalene   | 591     | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 91-20-3   |      |
| 2-Nitroaniline  | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 88-74-4   |      |
| 3-Nitroaniline  | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 99-09-2   |      |
| 4-Nitroaniline  | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 100-01-6  |      |
| Nitrobenzene  | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 98-95-3   |      |
| 2-Nitrophenol   | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 88-75-5   |      |
| 4-Nitrophenol   | <2070   | ug/kg | 2070   | 2070 | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 100-02-7  |      |
| N-Nitrosodimethylamine                                      | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                                  | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                      | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 86-30-6   |      |
| Pentachlorophenol   | <1900   | ug/kg | 2070   | 1900 | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 87-86-5   |      |
| Phenanthrene  | 6780    | ug/kg | 2140   | 2140 | 5  | 06/26/20 14:45 | 06/30/20 13:16 | 85-01-8   |      |
| Phenol  | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 108-95-2  |      |
| Pyrene  | 4370    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                      | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                       | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                       | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 88-06-2   |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)   | 58      | %     | 26-96  |      | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 4165-60-0 |      |
| Phenol-d5 (S)   | 60      | %     | 32-93  |      | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 4165-62-2 |      |
| 2-Fluorophenol (S)  | 25      | %     | 24-95  |      | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                    | 10      | %     | 20-109 |      | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 118-79-6  | S0   |
| 2-Fluorobiphenyl (S)  | 64      | %     | 36-91  |      | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 83      | %     | 27-117 |      | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                              |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                                 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| Acetone   | <1310   | ug/kg | 1310   | 1310 | 1  |                | 06/24/20 08:03 | 67-64-1   |      |
| Acrylonitrile   | <131    | ug/kg | 131    | 131  | 1  |                | 06/24/20 08:03 | 107-13-1  |      |
| tert-Amylmethyl ether                                       | <327    | ug/kg | 327    | 327  | 1  |                | 06/24/20 08:03 | 994-05-8  | N2   |
| Benzene   | <65.5   | ug/kg | 65.5   | 65.5 | 1  |                | 06/24/20 08:03 | 71-43-2   |      |
| Bromobenzene  | <131    | ug/kg | 131    | 131  | 1  |                | 06/24/20 08:03 | 108-86-1  |      |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

Sample: MW-128 (4-5) Lab ID: 50260268009 Collected: 06/15/20 09:45 Received: 06/18/20 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Bromochloromethane             | <32.7   | ug/kg  | 65.5 | 32.7 | 1  |          | 06/24/20 08:03 | 74-97-5    |      |
| Bromodichloromethane           | <131    | ug/kg  | 131  | 131  | 1  |          | 06/24/20 08:03 | 75-27-4    |      |
| Bromoform                      | <131    | ug/kg  | 131  | 131  | 1  |          | 06/24/20 08:03 | 75-25-2    |      |
| Bromomethane                   | <262    | ug/kg  | 262  | 262  | 1  |          | 06/24/20 08:03 | 74-83-9    |      |
| 2-Butanone (MEK)               | <982    | ug/kg  | 982  | 982  | 1  |          | 06/24/20 08:03 | 78-93-3    |      |
| tert-Butyl Alcohol             | <3270   | ug/kg  | 3270 | 3270 | 1  |          | 06/24/20 08:03 | 75-65-0    |      |
| n-Butylbenzene                 | <65.5   | ug/kg  | 65.5 | 65.5 | 1  |          | 06/24/20 08:03 | 104-51-8   |      |
| sec-Butylbenzene               | <65.5   | ug/kg  | 65.5 | 65.5 | 1  |          | 06/24/20 08:03 | 135-98-8   |      |
| tert-Butylbenzene              | <65.5   | ug/kg  | 65.5 | 65.5 | 1  |          | 06/24/20 08:03 | 98-06-6    |      |
| Carbon disulfide               | <327    | ug/kg  | 327  | 327  | 1  |          | 06/24/20 08:03 | 75-15-0    |      |
| Carbon tetrachloride           | <65.5   | ug/kg  | 65.5 | 65.5 | 1  |          | 06/24/20 08:03 | 56-23-5    |      |
| Chlorobenzene                  | <65.5   | ug/kg  | 65.5 | 65.5 | 1  |          | 06/24/20 08:03 | 108-90-7   |      |
| Chloroethane                   | <327    | ug/kg  | 327  | 327  | 1  |          | 06/24/20 08:03 | 75-00-3    |      |
| Chloroform                     | <65.5   | ug/kg  | 65.5 | 65.5 | 1  |          | 06/24/20 08:03 | 67-66-3    |      |
| Chloromethane                  | <327    | ug/kg  | 327  | 327  | 1  |          | 06/24/20 08:03 | 74-87-3    |      |
| Cyclohexane                    | <655    | ug/kg  | 655  | 655  | 1  |          | 06/24/20 08:03 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <65.5   | ug/kg  | 65.5 | 65.5 | 1  |          | 06/24/20 08:03 | 96-12-8    |      |
| Dibromochloromethane           | <131    | ug/kg  | 131  | 131  | 1  |          | 06/24/20 08:03 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <65.5   | ug/kg  | 65.5 | 65.5 | 1  |          | 06/24/20 08:03 | 106-93-4   |      |
| Dibromomethane                 | <327    | ug/kg  | 327  | 327  | 1  |          | 06/24/20 08:03 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <131    | ug/kg  | 131  | 131  | 1  |          | 06/24/20 08:03 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <131    | ug/kg  | 131  | 131  | 1  |          | 06/24/20 08:03 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <131    | ug/kg  | 131  | 131  | 1  |          | 06/24/20 08:03 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <131    | ug/kg  | 1310 | 131  | 1  |          | 06/24/20 08:03 | 110-57-6   |      |
| Dichlorodifluoromethane        | <327    | ug/kg  | 327  | 327  | 1  |          | 06/24/20 08:03 | 75-71-8    |      |
| 1,1-Dichloroethane             | <65.5   | ug/kg  | 65.5 | 65.5 | 1  |          | 06/24/20 08:03 | 75-34-3    |      |
| 1,2-Dichloroethane             | <65.5   | ug/kg  | 65.5 | 65.5 | 1  |          | 06/24/20 08:03 | 107-06-2   |      |
| 1,1-Dichloroethene             | <65.5   | ug/kg  | 65.5 | 65.5 | 1  |          | 06/24/20 08:03 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <65.5   | ug/kg  | 65.5 | 65.5 | 1  |          | 06/24/20 08:03 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <65.5   | ug/kg  | 65.5 | 65.5 | 1  |          | 06/24/20 08:03 | 156-60-5   |      |
| 1,2-Dichloropropane            | <65.5   | ug/kg  | 65.5 | 65.5 | 1  |          | 06/24/20 08:03 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <131    | ug/kg  | 131  | 131  | 1  |          | 06/24/20 08:03 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <131    | ug/kg  | 131  | 131  | 1  |          | 06/24/20 08:03 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <262    | ug/kg  | 262  | 262  | 1  |          | 06/24/20 08:03 | 60-29-7    |      |
| Diisopropyl ether              | <327    | ug/kg  | 327  | 327  | 1  |          | 06/24/20 08:03 | 108-20-3   | N2   |
| Ethylbenzene                   | <65.5   | ug/kg  | 65.5 | 65.5 | 1  |          | 06/24/20 08:03 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <327    | ug/kg  | 327  | 327  | 1  |          | 06/24/20 08:03 | 637-92-3   | N2   |
| Hexachloroethane               | <393    | ug/kg  | 393  | 393  | 1  |          | 06/24/20 08:03 | 67-72-1    | N2   |
| 2-Hexanone                     | <3270   | ug/kg  | 3270 | 3270 | 1  |          | 06/24/20 08:03 | 591-78-6   |      |
| Iodomethane                    | <131    | ug/kg  | 1310 | 131  | 1  |          | 06/24/20 08:03 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <327    | ug/kg  | 327  | 327  | 1  |          | 06/24/20 08:03 | 98-82-8    |      |
| p-Isopropyltoluene             | <32.7   | ug/kg  | 65.5 | 32.7 | 1  |          | 06/24/20 08:03 | 99-87-6    |      |
| Methylene Chloride             | <131    | ug/kg  | 131  | 131  | 1  |          | 06/24/20 08:03 | 75-09-2    |      |
| 2-Methylnaphthalene            | <432    | ug/kg  | 432  | 432  | 1  |          | 06/24/20 08:03 | 91-57-6    |      |

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-128 (4-5)**      **Lab ID: 50260268009**      Collected: 06/15/20 09:45      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|---------|--|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| 4-Methyl-2-pentanone (MIBK)    | <3270   | ug/kg  | 3270   | 3270 | 1  |          | 06/24/20 08:03 | 108-10-1    |      |
| Methyl-tert-butyl ether        | <327    | ug/kg  | 327    | 327  | 1  |          | 06/24/20 08:03 | 1634-04-4   |      |
| Naphthalene                    | <432    | ug/kg  | 432    | 432  | 1  |          | 06/24/20 08:03 | 91-20-3     |      |
| n-Propylbenzene                | <131    | ug/kg  | 131    | 131  | 1  |          | 06/24/20 08:03 | 103-65-1    |      |
| Styrene                        | <65.5   | ug/kg  | 65.5   | 65.5 | 1  |          | 06/24/20 08:03 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane      | <131    | ug/kg  | 131    | 131  | 1  |          | 06/24/20 08:03 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane      | <65.5   | ug/kg  | 65.5   | 65.5 | 1  |          | 06/24/20 08:03 | 79-34-5     |      |
| Tetrachloroethene              | <65.5   | ug/kg  | 65.5   | 65.5 | 1  |          | 06/24/20 08:03 | 127-18-4    |      |
| Tetrahydrofuran                | <1310   | ug/kg  | 1310   | 1310 | 1  |          | 06/24/20 08:03 | 109-99-9    | N2   |
| Toluene                        | <131    | ug/kg  | 131    | 131  | 1  |          | 06/24/20 08:03 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene         | <327    | ug/kg  | 327    | 327  | 1  |          | 06/24/20 08:03 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene         | <327    | ug/kg  | 327    | 327  | 1  |          | 06/24/20 08:03 | 120-82-1    |      |
| 1,1,1-Trichloroethane          | <65.5   | ug/kg  | 65.5   | 65.5 | 1  |          | 06/24/20 08:03 | 71-55-6     |      |
| 1,1,2-Trichloroethane          | <65.5   | ug/kg  | 65.5   | 65.5 | 1  |          | 06/24/20 08:03 | 79-00-5     |      |
| Trichloroethene                | <65.5   | ug/kg  | 65.5   | 65.5 | 1  |          | 06/24/20 08:03 | 79-01-6     |      |
| Trichlorofluoromethane         | <131    | ug/kg  | 131    | 131  | 1  |          | 06/24/20 08:03 | 75-69-4     |      |
| 1,2,3-Trichloropropane         | <131    | ug/kg  | 131    | 131  | 1  |          | 06/24/20 08:03 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene         | <327    | ug/kg  | 327    | 327  | 1  |          | 06/24/20 08:03 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene         | <131    | ug/kg  | 131    | 131  | 1  |          | 06/24/20 08:03 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | <131    | ug/kg  | 131    | 131  | 1  |          | 06/24/20 08:03 | 108-67-8    |      |
| Vinyl chloride                 | <52.4   | ug/kg  | 52.4   | 52.4 | 1  |          | 06/24/20 08:03 | 75-01-4     |      |
| m&p-Xylene                     | <32.7   | ug/kg  | 65.5   | 32.7 | 1  |          | 06/24/20 08:03 | 179601-23-1 |      |
| o-Xylene                       | <32.7   | ug/kg  | 65.5   | 32.7 | 1  |          | 06/24/20 08:03 | 95-47-6     |      |
| <b>Surrogates</b>              |         |  |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)       | 120     | %  | 62-137 |      | 1  |          | 06/24/20 08:03 | 1868-53-7   |      |
| Toluene-d8 (S)                 | 114     | %  | 64-139 |      | 1  |          | 06/24/20 08:03 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)       | 119     | %  | 60-142 |      | 1  |          | 06/24/20 08:03 | 460-00-4    |      |

**Percent Moisture**

Analytical Method: SM 2540G  
Pace Analytical Services - Indianapolis

|                  |             |   |      |      |   |  |                |  |  |
|------------------|-------------|---|------|------|---|--|----------------|--|--|
| Percent Moisture | <b>14.5</b> | % | 0.10 | 0.10 | 1 |  | 06/23/20 14:20 |  |  |
|------------------|-------------|---|------|------|---|--|----------------|--|--|

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-128 (8-9)**      **Lab ID: 50260268010**      Collected: 06/15/20 09:47      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL   | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|-------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                     |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |       |       |    |                |                |           |      |
| n-Butanol  | <4890   | ug/kg | 4890  | 4890  | 1  |                | 06/22/20 17:44 | 71-36-3   |      |
| Ethanol  | <2780   | ug/kg | 2780  | 2780  | 1  |                | 06/22/20 17:44 | 64-17-5   |      |
| Methanol   | <4890   | ug/kg | 4890  | 4890  | 1  |                | 06/22/20 17:44 | 67-56-1   |      |
| <b>6010 MET ICP</b>  |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050  |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |       |       |    |                |                |           |      |
| Antimony   | <961    | ug/kg | 961   | 961   | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7440-36-0 |      |
| Arsenic  | <1920   | ug/kg | 1920  | 1920  | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7440-38-2 |      |
| Barium   | 7670    | ug/kg | 961   | 961   | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7440-39-3 |      |
| Beryllium  | <480    | ug/kg | 480   | 480   | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7440-41-7 |      |
| Boron  | <7690   | ug/kg | 7690  | 7690  | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7440-42-8 |      |
| Calcium  | 663000  | ug/kg | 48000 | 6370  | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7440-70-2 |      |
| Chromium   | 6740    | ug/kg | 1920  | 1920  | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7440-47-3 |      |
| Copper   | 2900    | ug/kg | 961   | 961   | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7440-50-8 |      |
| Iron   | 3950000 | ug/kg | 24000 | 7300  | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7439-89-6 |      |
| Lead   | <9610   | ug/kg | 9610  | 9610  | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7439-92-1 |      |
| Magnesium  | 1110000 | ug/kg | 24000 | 3840  | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7439-95-4 |      |
| Manganese  | 148000  | ug/kg | 961   | 961   | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7439-96-5 |      |
| Molybdenum   | <961    | ug/kg | 961   | 961   | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7439-98-7 |      |
| Nickel   | 5440    | ug/kg | 961   | 961   | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7440-02-0 |      |
| Potassium  | 232000  | ug/kg | 48000 | 4700  | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7440-09-7 |      |
| Sodium   | 26100   | ug/kg | 24000 | 13100 | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7440-23-5 |      |
| Strontium  | <4800   | ug/kg | 4800  | 4800  | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7440-24-6 |      |
| Vanadium   | 6710    | ug/kg | 961   | 961   | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7440-62-2 |      |
| Zinc   | 9870    | ug/kg | 961   | 961   | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7440-66-6 |      |
| <b>6020 MET ICPMS</b>  |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |       |       |    |                |                |           |      |
| Aluminum   | 2900000 | ug/kg | 54000 | 54000 | 50 | 06/24/20 09:22 | 06/30/20 01:27 | 7429-90-5 |      |
| Cadmium  | <216    | ug/kg | 216   | 216   | 1  | 06/24/20 09:22 | 06/25/20 15:44 | 7440-43-9 |      |
| Cobalt   | 1640    | ug/kg | 540   | 540   | 1  | 06/24/20 09:22 | 06/25/20 15:44 | 7440-48-4 |      |
| Selenium   | <1080   | ug/kg | 1080  | 1080  | 5  | 06/24/20 09:22 | 06/30/20 02:45 | 7782-49-2 | D3   |
| Silver   | <108    | ug/kg | 108   | 108   | 1  | 06/24/20 09:22 | 06/25/20 15:44 | 7440-22-4 |      |
| Thallium   | <540    | ug/kg | 540   | 540   | 1  | 06/24/20 09:22 | 06/25/20 15:44 | 7440-28-0 |      |
| Titanium   | 179000  | ug/kg | 5400  | 1440  | 50 | 06/24/20 09:22 | 06/30/20 01:27 | 7440-32-6 | N2   |
| <b>7471 Mercury</b>  |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 7471      Preparation Method: EPA 7471  |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |       |       |    |                |                |           |      |
| Mercury  | <93.4   | ug/kg | 118   | 93.4  | 1  | 06/26/20 02:49 | 06/26/20 07:38 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                       |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 8270      Preparation Method: EPA 3546  |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |       |       |    |                |                |           |      |
| Acenaphthene   | <347    | ug/kg | 347   | 347   | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 83-32-9   |      |
| Acenaphthylene   | <347    | ug/kg | 347   | 347   | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 208-96-8  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

**Sample: MW-128 (8-9)**      **Lab ID: 50260268010**      Collected: 06/15/20 09:47      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                    |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |      |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |      |      |    |                |                |           |      |
| Anthracene  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 120-12-7  |      |
| Benzo(a)anthracene  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 56-55-3   |      |
| Benzo(a)pyrene  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 207-08-9  |      |
| 4-Bromophenylphenyl ether                                   | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 101-55-3  |      |
| Butylbenzylphthalate  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 85-68-7   |      |
| Carbazole   | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                     | <295    | ug/kg | 347  | 295  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                                  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                    | <168    | ug/kg | 347  | 168  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                                | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 108-60-1  |      |
| 2-Chloronaphthalene   | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 91-58-7   |      |
| 2-Chlorophenol  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                                  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 7005-72-3 |      |
| Chrysene  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                       | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 53-70-3   |      |
| Dibenzofuran  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 132-64-9  |      |
| 2,4-Dichlorophenol  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 120-83-2  |      |
| Diethylphthalate  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 84-66-2   |      |
| 2,4-Dimethylphenol  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 105-67-9  |      |
| Dimethylphthalate   | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 131-11-3  |      |
| Di-n-butylphthalate   | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                                  | <873    | ug/kg | 873  | 873  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 534-52-1  |      |
| 2,4-Dinitrophenol   | <1680   | ug/kg | 1680 | 1680 | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 51-28-5   |      |
| 2,4-Dinitrotoluene  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 121-14-2  |      |
| 2,6-Dinitrotoluene  | <93.1   | ug/kg | 347  | 93.1 | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 606-20-2  |      |
| Di-n-octylphthalate   | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                       | <1680   | ug/kg | 1680 | 1680 | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate                                  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 117-81-7  |      |
| Fluoranthene  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 206-44-0  |      |
| Fluorene  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                    | <101    | ug/kg | 347  | 101  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 87-68-3   |      |
| Hexachlorobenzene   | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                   | <1050   | ug/kg | 1050 | 1050 | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 77-47-4   |      |
| Hexachloroethane  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                      | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 193-39-5  |      |
| Isophorone  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 78-59-1   |      |
| 2-Methylnaphthalene   | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                    | <1050   | ug/kg | 1050 | 1050 | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                                | <1050   | ug/kg | 1050 | 1050 | 1  | 06/23/20 12:30 | 06/24/20 14:24 |           |      |
| Naphthalene   | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 91-20-3   |      |
| 2-Nitroaniline  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 88-74-4   |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

Sample: MW-128 (8-9) Lab ID: 50260268010 Collected: 06/15/20 09:47 Received: 06/18/20 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                 |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |        |      |    |                |                |           |      |
| 3-Nitroaniline   | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 99-09-2   |      |
| 4-Nitroaniline   | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 100-01-6  |      |
| Nitrobenzene   | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 98-95-3   |      |
| 2-Nitrophenol  | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 88-75-5   |      |
| 4-Nitrophenol  | <1680   | ug/kg | 1680   | 1680 | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 100-02-7  |      |
| N-Nitrosodimethylamine                                   | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                               | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                   | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 86-30-6   |      |
| Pentachlorophenol  | <1550   | ug/kg | 1680   | 1550 | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 87-86-5   |      |
| Phenanthrene   | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 85-01-8   |      |
| Phenol   | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 108-95-2  |      |
| Pyrene   | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                   | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                    | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                    | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)                                      | 43      | %     | 26-96  |      | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 4165-60-0 |      |
| Phenol-d5 (S)  | 79      | %     | 32-93  |      | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 4165-62-2 |      |
| 2-Fluorophenol (S)                                       | 81      | %     | 24-95  |      | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                 | 74      | %     | 20-109 |      | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 118-79-6  |      |
| 2-Fluorobiphenyl (S)                                     | 121     | %     | 36-91  |      | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 321-60-8  | S3   |
| p-Terphenyl-d14 (S)                                      | 92      | %     | 27-117 |      | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                           |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                              |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |        |      |    |                |                |           |      |
| Acetone  | <1270   | ug/kg | 1270   | 1270 | 1  |                | 06/24/20 08:36 | 67-64-1   |      |
| Acrylonitrile  | <127    | ug/kg | 127    | 127  | 1  |                | 06/24/20 08:36 | 107-13-1  |      |
| tert-Amylmethyl ether                                    | <317    | ug/kg | 317    | 317  | 1  |                | 06/24/20 08:36 | 994-05-8  | N2   |
| Benzene  | <63.5   | ug/kg | 63.5   | 63.5 | 1  |                | 06/24/20 08:36 | 71-43-2   |      |
| Bromobenzene   | <127    | ug/kg | 127    | 127  | 1  |                | 06/24/20 08:36 | 108-86-1  |      |
| Bromochloromethane                                       | <31.7   | ug/kg | 63.5   | 31.7 | 1  |                | 06/24/20 08:36 | 74-97-5   |      |
| Bromodichloromethane                                     | <127    | ug/kg | 127    | 127  | 1  |                | 06/24/20 08:36 | 75-27-4   |      |
| Bromoform  | <127    | ug/kg | 127    | 127  | 1  |                | 06/24/20 08:36 | 75-25-2   |      |
| Bromomethane   | <254    | ug/kg | 254    | 254  | 1  |                | 06/24/20 08:36 | 74-83-9   |      |
| 2-Butanone (MEK)   | <952    | ug/kg | 952    | 952  | 1  |                | 06/24/20 08:36 | 78-93-3   |      |
| tert-Butyl Alcohol                                       | <3170   | ug/kg | 3170   | 3170 | 1  |                | 06/24/20 08:36 | 75-65-0   |      |
| n-Butylbenzene   | <63.5   | ug/kg | 63.5   | 63.5 | 1  |                | 06/24/20 08:36 | 104-51-8  |      |
| sec-Butylbenzene   | <63.5   | ug/kg | 63.5   | 63.5 | 1  |                | 06/24/20 08:36 | 135-98-8  |      |
| tert-Butylbenzene  | <63.5   | ug/kg | 63.5   | 63.5 | 1  |                | 06/24/20 08:36 | 98-06-6   |      |
| Carbon disulfide   | <317    | ug/kg | 317    | 317  | 1  |                | 06/24/20 08:36 | 75-15-0   |      |
| Carbon tetrachloride                                     | <63.5   | ug/kg | 63.5   | 63.5 | 1  |                | 06/24/20 08:36 | 56-23-5   |      |
| Chlorobenzene  | <63.5   | ug/kg | 63.5   | 63.5 | 1  |                | 06/24/20 08:36 | 108-90-7  |      |
| Chloroethane   | <317    | ug/kg | 317    | 317  | 1  |                | 06/24/20 08:36 | 75-00-3   |      |
| Chloroform   | <63.5   | ug/kg | 63.5   | 63.5 | 1  |                | 06/24/20 08:36 | 67-66-3   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

**Sample: MW-128 (8-9)**      **Lab ID: 50260268010**      Collected: 06/15/20 09:47      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Chloromethane                  | <317    | ug/kg  | 317  | 317  | 1  |          | 06/24/20 08:36 | 74-87-3    |      |
| Cyclohexane                    | <635    | ug/kg  | 635  | 635  | 1  |          | 06/24/20 08:36 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <63.5   | ug/kg  | 63.5 | 63.5 | 1  |          | 06/24/20 08:36 | 96-12-8    |      |
| Dibromochloromethane           | <127    | ug/kg  | 127  | 127  | 1  |          | 06/24/20 08:36 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <63.5   | ug/kg  | 63.5 | 63.5 | 1  |          | 06/24/20 08:36 | 106-93-4   |      |
| Dibromomethane                 | <317    | ug/kg  | 317  | 317  | 1  |          | 06/24/20 08:36 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <127    | ug/kg  | 127  | 127  | 1  |          | 06/24/20 08:36 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <127    | ug/kg  | 127  | 127  | 1  |          | 06/24/20 08:36 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <127    | ug/kg  | 127  | 127  | 1  |          | 06/24/20 08:36 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <127    | ug/kg  | 1270 | 127  | 1  |          | 06/24/20 08:36 | 110-57-6   |      |
| Dichlorodifluoromethane        | <317    | ug/kg  | 317  | 317  | 1  |          | 06/24/20 08:36 | 75-71-8    |      |
| 1,1-Dichloroethane             | <63.5   | ug/kg  | 63.5 | 63.5 | 1  |          | 06/24/20 08:36 | 75-34-3    |      |
| 1,2-Dichloroethane             | <63.5   | ug/kg  | 63.5 | 63.5 | 1  |          | 06/24/20 08:36 | 107-06-2   |      |
| 1,1-Dichloroethene             | <63.5   | ug/kg  | 63.5 | 63.5 | 1  |          | 06/24/20 08:36 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <63.5   | ug/kg  | 63.5 | 63.5 | 1  |          | 06/24/20 08:36 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <63.5   | ug/kg  | 63.5 | 63.5 | 1  |          | 06/24/20 08:36 | 156-60-5   |      |
| 1,2-Dichloropropane            | <63.5   | ug/kg  | 63.5 | 63.5 | 1  |          | 06/24/20 08:36 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <127    | ug/kg  | 127  | 127  | 1  |          | 06/24/20 08:36 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <127    | ug/kg  | 127  | 127  | 1  |          | 06/24/20 08:36 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <254    | ug/kg  | 254  | 254  | 1  |          | 06/24/20 08:36 | 60-29-7    |      |
| Diisopropyl ether              | <317    | ug/kg  | 317  | 317  | 1  |          | 06/24/20 08:36 | 108-20-3   | N2   |
| Ethylbenzene                   | <63.5   | ug/kg  | 63.5 | 63.5 | 1  |          | 06/24/20 08:36 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <317    | ug/kg  | 317  | 317  | 1  |          | 06/24/20 08:36 | 637-92-3   | N2   |
| Hexachloroethane               | <381    | ug/kg  | 381  | 381  | 1  |          | 06/24/20 08:36 | 67-72-1    | N2   |
| 2-Hexanone                     | <3170   | ug/kg  | 3170 | 3170 | 1  |          | 06/24/20 08:36 | 591-78-6   |      |
| Iodomethane                    | <127    | ug/kg  | 1270 | 127  | 1  |          | 06/24/20 08:36 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <317    | ug/kg  | 317  | 317  | 1  |          | 06/24/20 08:36 | 98-82-8    |      |
| p-Isopropyltoluene             | <31.7   | ug/kg  | 63.5 | 31.7 | 1  |          | 06/24/20 08:36 | 99-87-6    |      |
| Methylene Chloride             | <127    | ug/kg  | 127  | 127  | 1  |          | 06/24/20 08:36 | 75-09-2    |      |
| 2-Methylnaphthalene            | <419    | ug/kg  | 419  | 419  | 1  |          | 06/24/20 08:36 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)    | <3170   | ug/kg  | 3170 | 3170 | 1  |          | 06/24/20 08:36 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <317    | ug/kg  | 317  | 317  | 1  |          | 06/24/20 08:36 | 1634-04-4  |      |
| Naphthalene                    | <419    | ug/kg  | 419  | 419  | 1  |          | 06/24/20 08:36 | 91-20-3    |      |
| n-Propylbenzene                | <127    | ug/kg  | 127  | 127  | 1  |          | 06/24/20 08:36 | 103-65-1   |      |
| Styrene                        | <63.5   | ug/kg  | 63.5 | 63.5 | 1  |          | 06/24/20 08:36 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <127    | ug/kg  | 127  | 127  | 1  |          | 06/24/20 08:36 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane      | <63.5   | ug/kg  | 63.5 | 63.5 | 1  |          | 06/24/20 08:36 | 79-34-5    |      |
| Tetrachloroethene              | <63.5   | ug/kg  | 63.5 | 63.5 | 1  |          | 06/24/20 08:36 | 127-18-4   |      |
| Tetrahydrofuran                | <1270   | ug/kg  | 1270 | 1270 | 1  |          | 06/24/20 08:36 | 109-99-9   | N2   |
| Toluene                        | <127    | ug/kg  | 127  | 127  | 1  |          | 06/24/20 08:36 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene         | <317    | ug/kg  | 317  | 317  | 1  |          | 06/24/20 08:36 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene         | <317    | ug/kg  | 317  | 317  | 1  |          | 06/24/20 08:36 | 120-82-1   |      |
| 1,1,1-Trichloroethane          | <63.5   | ug/kg  | 63.5 | 63.5 | 1  |          | 06/24/20 08:36 | 71-55-6    |      |
| 1,1,2-Trichloroethane          | <63.5   | ug/kg  | 63.5 | 63.5 | 1  |          | 06/24/20 08:36 | 79-00-5    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-128 (8-9)**      **Lab ID: 50260268010**      Collected: 06/15/20 09:47      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Trichloroethene                         | <63.5   | ug/kg | 63.5   | 63.5 | 1  |          | 06/24/20 08:36 | 79-01-6     |      |
| Trichlorofluoromethane                  | <127    | ug/kg | 127    | 127  | 1  |          | 06/24/20 08:36 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <127    | ug/kg | 127    | 127  | 1  |          | 06/24/20 08:36 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <317    | ug/kg | 317    | 317  | 1  |          | 06/24/20 08:36 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <127    | ug/kg | 127    | 127  | 1  |          | 06/24/20 08:36 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <127    | ug/kg | 127    | 127  | 1  |          | 06/24/20 08:36 | 108-67-8    |      |
| Vinyl chloride                          | <50.8   | ug/kg | 50.8   | 50.8 | 1  |          | 06/24/20 08:36 | 75-01-4     |      |
| m&p-Xylene                              | <31.7   | ug/kg | 63.5   | 31.7 | 1  |          | 06/24/20 08:36 | 179601-23-1 |      |
| o-Xylene                                | <31.7   | ug/kg | 63.5   | 31.7 | 1  |          | 06/24/20 08:36 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 113     | %     | 62-137 |      | 1  |          | 06/24/20 08:36 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 110     | %     | 64-139 |      | 1  |          | 06/24/20 08:36 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 113     | %     | 60-142 |      | 1  |          | 06/24/20 08:36 | 460-00-4    |      |
| <b>Percent Moisture</b>                 |         |       |        |      |    |          |                |             |      |
| Analytical Method: SM 2540G             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Percent Moisture                        | 10.0    | %     | 0.10   | 0.10 | 1  |          | 06/23/20 14:20 |             |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-129 (3-4)**      **Lab ID: 50260268011**      Collected: 06/15/20 11:56      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results  | Units | PQL    | MDL   | DF  | Prepared       | Analyzed       | CAS No.   | Qual |
|--|----------|-------|--------|-------|-----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                |          |       |        |       |     |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                     |          |       |        |       |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |       |     |                |                |           |      |
| n-Butanol  | <4620    | ug/kg | 4620   | 4620  | 1   |                | 06/22/20 17:54 | 71-36-3   |      |
| Ethanol  | <2620    | ug/kg | 2620   | 2620  | 1   |                | 06/22/20 17:54 | 64-17-5   |      |
| Methanol   | <4620    | ug/kg | 4620   | 4620  | 1   |                | 06/22/20 17:54 | 67-56-1   |      |
| <b>6010 MET ICP</b>  |          |       |        |       |     |                |                |           |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050  |          |       |        |       |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |       |     |                |                |           |      |
| Antimony   | <926     | ug/kg | 926    | 926   | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7440-36-0 |      |
| Arsenic  | 2450     | ug/kg | 1850   | 1850  | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7440-38-2 |      |
| Barium   | 23100    | ug/kg | 926    | 926   | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7440-39-3 |      |
| Beryllium  | <463     | ug/kg | 463    | 463   | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7440-41-7 |      |
| Boron  | <7410    | ug/kg | 7410   | 7410  | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7440-42-8 |      |
| Calcium  | 24200000 | ug/kg | 231000 | 30700 | 5   | 06/26/20 14:44 | 06/29/20 12:52 | 7440-70-2 |      |
| Chromium   | 8290     | ug/kg | 1850   | 1850  | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7440-47-3 |      |
| Copper   | 20800    | ug/kg | 926    | 926   | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7440-50-8 |      |
| Iron   | 6060000  | ug/kg | 23100  | 7040  | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7439-89-6 |      |
| Lead   | 47200    | ug/kg | 9260   | 9260  | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7439-92-1 |      |
| Magnesium  | 3800000  | ug/kg | 23100  | 3700  | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7439-95-4 |      |
| Manganese  | 92200    | ug/kg | 926    | 926   | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7439-96-5 |      |
| Molybdenum   | <926     | ug/kg | 926    | 926   | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7439-98-7 |      |
| Nickel   | 5930     | ug/kg | 926    | 926   | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7440-02-0 |      |
| Potassium  | 336000   | ug/kg | 46300  | 4530  | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7440-09-7 |      |
| Sodium   | 72400    | ug/kg | 23100  | 12600 | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7440-23-5 |      |
| Strontium  | 30000    | ug/kg | 4630   | 4630  | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7440-24-6 |      |
| Vanadium   | 10200    | ug/kg | 926    | 926   | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7440-62-2 |      |
| Zinc   | 43600    | ug/kg | 926    | 926   | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7440-66-6 |      |
| <b>6020 MET ICPMS</b>  |          |       |        |       |     |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B |          |       |        |       |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |       |     |                |                |           |      |
| Aluminum   | 4190000  | ug/kg | 99900  | 99900 | 100 | 06/24/20 09:22 | 06/30/20 01:31 | 7429-90-5 |      |
| Cadmium  | 316      | ug/kg | 200    | 200   | 1   | 06/24/20 09:22 | 06/25/20 15:58 | 7440-43-9 |      |
| Cobalt   | 1610     | ug/kg | 500    | 500   | 1   | 06/24/20 09:22 | 06/25/20 15:58 | 7440-48-4 |      |
| Selenium   | <999     | ug/kg | 999    | 999   | 5   | 06/24/20 09:22 | 06/30/20 02:50 | 7782-49-2 | D3   |
| Silver   | <99.9    | ug/kg | 99.9   | 99.9  | 1   | 06/24/20 09:22 | 06/25/20 15:58 | 7440-22-4 |      |
| Thallium   | <500     | ug/kg | 500    | 500   | 1   | 06/24/20 09:22 | 06/25/20 15:58 | 7440-28-0 |      |
| Titanium   | 247000   | ug/kg | 9990   | 2660  | 100 | 06/24/20 09:22 | 06/30/20 01:31 | 7440-32-6 | N2   |
| <b>7471 Mercury</b>  |          |       |        |       |     |                |                |           |      |
| Analytical Method: EPA 7471      Preparation Method: EPA 7471  |          |       |        |       |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |       |     |                |                |           |      |
| Mercury  | 666      | ug/kg | 106    | 83.5  | 1   | 06/26/20 02:49 | 06/26/20 07:40 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                       |          |       |        |       |     |                |                |           |      |
| Analytical Method: EPA 8270      Preparation Method: EPA 3546  |          |       |        |       |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |       |     |                |                |           |      |
| Acenaphthene   | <1630    | ug/kg | 1630   | 1630  | 5   | 06/23/20 12:30 | 06/24/20 14:42 | 83-32-9   |      |
| Acenaphthylene   | <1630    | ug/kg | 1630   | 1630  | 5   | 06/23/20 12:30 | 06/24/20 14:42 | 208-96-8  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-129 (3-4)**      **Lab ID: 50260268011**      Collected: 06/15/20 11:56      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                 |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |      |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |      |      |    |                |                |           |      |
| Anthracene   | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 120-12-7  |      |
| Benzo(a)anthracene                                       | 1650    | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 56-55-3   |      |
| Benzo(a)pyrene   | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 50-32-8   |      |
| Benzo(b)fluoranthene                                     | 2220    | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 205-99-2  |      |
| Benzo(g,h,i)perylene                                     | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 191-24-2  |      |
| Benzo(k)fluoranthene                                     | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 207-08-9  |      |
| 4-Bromophenylphenyl ether                                | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 101-55-3  |      |
| Butylbenzylphthalate                                     | 90700   | ug/kg | 8150 | 8150 | 25 | 06/23/20 12:30 | 06/25/20 17:36 | 85-68-7   |      |
| Carbazole  | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                  | <1380   | ug/kg | 1630 | 1380 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                               | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                 | <790    | ug/kg | 1630 | 790  | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                             | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 108-60-1  |      |
| 2-Chloronaphthalene                                      | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 91-58-7   |      |
| 2-Chlorophenol   | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                               | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 7005-72-3 |      |
| Chrysene   | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                    | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 53-70-3   |      |
| Dibenzofuran   | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 132-64-9  |      |
| 2,4-Dichlorophenol                                       | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 120-83-2  |      |
| Diethylphthalate   | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 84-66-2   |      |
| 2,4-Dimethylphenol                                       | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 105-67-9  |      |
| Dimethylphthalate  | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 131-11-3  |      |
| Di-n-butylphthalate                                      | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                               | <4100   | ug/kg | 4100 | 4100 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 534-52-1  |      |
| 2,4-Dinitrophenol  | <7900   | ug/kg | 7900 | 7900 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 51-28-5   |      |
| 2,4-Dinitrotoluene                                       | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 121-14-2  |      |
| 2,6-Dinitrotoluene                                       | <437    | ug/kg | 1630 | 437  | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 606-20-2  |      |
| Di-n-octylphthalate                                      | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                    | <7900   | ug/kg | 7900 | 7900 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate                               | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 117-81-7  |      |
| Fluoranthene   | 2960    | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 206-44-0  |      |
| Fluorene   | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                 | <474    | ug/kg | 1630 | 474  | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 87-68-3   |      |
| Hexachlorobenzene  | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                | <4940   | ug/kg | 4940 | 4940 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 77-47-4   |      |
| Hexachloroethane   | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                   | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 193-39-5  |      |
| Isophorone   | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 78-59-1   |      |
| 2-Methylnaphthalene                                      | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                 | <4940   | ug/kg | 4940 | 4940 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                             | <4940   | ug/kg | 4940 | 4940 | 5  | 06/23/20 12:30 | 06/24/20 14:42 |           |      |
| Naphthalene  | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 91-20-3   |      |
| 2-Nitroaniline   | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 88-74-4   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-129 (3-4)**      **Lab ID: 50260268011**      Collected: 06/15/20 11:56      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                    |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| 3-Nitroaniline  | <1630   | ug/kg | 1630   | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 99-09-2   |      |
| 4-Nitroaniline  | <1630   | ug/kg | 1630   | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 100-01-6  |      |
| Nitrobenzene  | <1630   | ug/kg | 1630   | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 98-95-3   |      |
| 2-Nitrophenol   | <1630   | ug/kg | 1630   | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 88-75-5   |      |
| 4-Nitrophenol   | <7900   | ug/kg | 7900   | 7900 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 100-02-7  |      |
| N-Nitrosodimethylamine                                      | <1630   | ug/kg | 1630   | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                                  | <1630   | ug/kg | 1630   | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                      | <1630   | ug/kg | 1630   | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 86-30-6   |      |
| Pentachlorophenol   | <7260   | ug/kg | 7900   | 7260 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 87-86-5   |      |
| Phenanthrene  | 1870    | ug/kg | 1630   | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 85-01-8   |      |
| Phenol  | <1630   | ug/kg | 1630   | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 108-95-2  | ED   |
| Pyrene  | 2620    | ug/kg | 1630   | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                      | <1630   | ug/kg | 1630   | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                       | <1630   | ug/kg | 1630   | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                       | <1630   | ug/kg | 1630   | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 88-06-2   |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)   | 58      | %     | 26-96  |      | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 4165-60-0 |      |
| Phenol-d5 (S)   | 73      | %     | 32-93  |      | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 4165-62-2 |      |
| 2-Fluorophenol (S)  | 83      | %     | 24-95  |      | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                    | 73      | %     | 20-109 |      | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 118-79-6  |      |
| 2-Fluorobiphenyl (S)  | 92      | %     | 36-91  |      | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 321-60-8  | S0   |
| p-Terphenyl-d14 (S)   | 97      | %     | 27-117 |      | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                              |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                                 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| Acetone   | <1020   | ug/kg | 1020   | 1020 | 1  |                | 06/24/20 09:09 | 67-64-1   |      |
| Acrylonitrile   | <102    | ug/kg | 102    | 102  | 1  |                | 06/24/20 09:09 | 107-13-1  |      |
| tert-Amylmethyl ether                                       | <255    | ug/kg | 255    | 255  | 1  |                | 06/24/20 09:09 | 994-05-8  | N2   |
| Benzene   | <51.0   | ug/kg | 51.0   | 51.0 | 1  |                | 06/24/20 09:09 | 71-43-2   |      |
| Bromobenzene  | <102    | ug/kg | 102    | 102  | 1  |                | 06/24/20 09:09 | 108-86-1  |      |
| Bromochloromethane  | <25.5   | ug/kg | 51.0   | 25.5 | 1  |                | 06/24/20 09:09 | 74-97-5   |      |
| Bromodichloromethane  | <102    | ug/kg | 102    | 102  | 1  |                | 06/24/20 09:09 | 75-27-4   |      |
| Bromoform   | <102    | ug/kg | 102    | 102  | 1  |                | 06/24/20 09:09 | 75-25-2   |      |
| Bromomethane  | <204    | ug/kg | 204    | 204  | 1  |                | 06/24/20 09:09 | 74-83-9   |      |
| 2-Butanone (MEK)  | <766    | ug/kg | 766    | 766  | 1  |                | 06/24/20 09:09 | 78-93-3   |      |
| tert-Butyl Alcohol  | <2550   | ug/kg | 2550   | 2550 | 1  |                | 06/24/20 09:09 | 75-65-0   |      |
| n-Butylbenzene  | <51.0   | ug/kg | 51.0   | 51.0 | 1  |                | 06/24/20 09:09 | 104-51-8  |      |
| sec-Butylbenzene  | <51.0   | ug/kg | 51.0   | 51.0 | 1  |                | 06/24/20 09:09 | 135-98-8  |      |
| tert-Butylbenzene   | <51.0   | ug/kg | 51.0   | 51.0 | 1  |                | 06/24/20 09:09 | 98-06-6   |      |
| Carbon disulfide  | <255    | ug/kg | 255    | 255  | 1  |                | 06/24/20 09:09 | 75-15-0   |      |
| Carbon tetrachloride  | <51.0   | ug/kg | 51.0   | 51.0 | 1  |                | 06/24/20 09:09 | 56-23-5   |      |
| Chlorobenzene   | <51.0   | ug/kg | 51.0   | 51.0 | 1  |                | 06/24/20 09:09 | 108-90-7  |      |
| Chloroethane  | <255    | ug/kg | 255    | 255  | 1  |                | 06/24/20 09:09 | 75-00-3   |      |
| Chloroform  | <51.0   | ug/kg | 51.0   | 51.0 | 1  |                | 06/24/20 09:09 | 67-66-3   |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-129 (3-4)**      **Lab ID: 50260268011**      Collected: 06/15/20 11:56      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Chloromethane                  | <255    | ug/kg  | 255  | 255  | 1  |          | 06/24/20 09:09 | 74-87-3    |      |
| Cyclohexane                    | <510    | ug/kg  | 510  | 510  | 1  |          | 06/24/20 09:09 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 06/24/20 09:09 | 96-12-8    |      |
| Dibromochloromethane           | <102    | ug/kg  | 102  | 102  | 1  |          | 06/24/20 09:09 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 06/24/20 09:09 | 106-93-4   |      |
| Dibromomethane                 | <255    | ug/kg  | 255  | 255  | 1  |          | 06/24/20 09:09 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <102    | ug/kg  | 102  | 102  | 1  |          | 06/24/20 09:09 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <102    | ug/kg  | 102  | 102  | 1  |          | 06/24/20 09:09 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <102    | ug/kg  | 102  | 102  | 1  |          | 06/24/20 09:09 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <102    | ug/kg  | 1020 | 102  | 1  |          | 06/24/20 09:09 | 110-57-6   |      |
| Dichlorodifluoromethane        | <255    | ug/kg  | 255  | 255  | 1  |          | 06/24/20 09:09 | 75-71-8    |      |
| 1,1-Dichloroethane             | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 06/24/20 09:09 | 75-34-3    |      |
| 1,2-Dichloroethane             | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 06/24/20 09:09 | 107-06-2   |      |
| 1,1-Dichloroethene             | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 06/24/20 09:09 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 06/24/20 09:09 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 06/24/20 09:09 | 156-60-5   |      |
| 1,2-Dichloropropane            | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 06/24/20 09:09 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <102    | ug/kg  | 102  | 102  | 1  |          | 06/24/20 09:09 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <102    | ug/kg  | 102  | 102  | 1  |          | 06/24/20 09:09 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <204    | ug/kg  | 204  | 204  | 1  |          | 06/24/20 09:09 | 60-29-7    |      |
| Diisopropyl ether              | <255    | ug/kg  | 255  | 255  | 1  |          | 06/24/20 09:09 | 108-20-3   | N2   |
| Ethylbenzene                   | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 06/24/20 09:09 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <255    | ug/kg  | 255  | 255  | 1  |          | 06/24/20 09:09 | 637-92-3   | N2   |
| Hexachloroethane               | <306    | ug/kg  | 306  | 306  | 1  |          | 06/24/20 09:09 | 67-72-1    | N2   |
| 2-Hexanone                     | <2550   | ug/kg  | 2550 | 2550 | 1  |          | 06/24/20 09:09 | 591-78-6   |      |
| Iodomethane                    | <102    | ug/kg  | 1020 | 102  | 1  |          | 06/24/20 09:09 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <255    | ug/kg  | 255  | 255  | 1  |          | 06/24/20 09:09 | 98-82-8    |      |
| p-Isopropyltoluene             | <25.5   | ug/kg  | 51.0 | 25.5 | 1  |          | 06/24/20 09:09 | 99-87-6    |      |
| Methylene Chloride             | <102    | ug/kg  | 102  | 102  | 1  |          | 06/24/20 09:09 | 75-09-2    |      |
| 2-Methylnaphthalene            | <337    | ug/kg  | 337  | 337  | 1  |          | 06/24/20 09:09 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)    | <2550   | ug/kg  | 2550 | 2550 | 1  |          | 06/24/20 09:09 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <255    | ug/kg  | 255  | 255  | 1  |          | 06/24/20 09:09 | 1634-04-4  |      |
| Naphthalene                    | <337    | ug/kg  | 337  | 337  | 1  |          | 06/24/20 09:09 | 91-20-3    |      |
| n-Propylbenzene                | <102    | ug/kg  | 102  | 102  | 1  |          | 06/24/20 09:09 | 103-65-1   |      |
| Styrene                        | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 06/24/20 09:09 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <102    | ug/kg  | 102  | 102  | 1  |          | 06/24/20 09:09 | 630-20-6   |      |
| 1,1,1,2,2-Tetrachloroethane    | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 06/24/20 09:09 | 79-34-5    |      |
| Tetrachloroethene              | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 06/24/20 09:09 | 127-18-4   |      |
| Tetrahydrofuran                | <1020   | ug/kg  | 1020 | 1020 | 1  |          | 06/24/20 09:09 | 109-99-9   | N2   |
| Toluene                        | <102    | ug/kg  | 102  | 102  | 1  |          | 06/24/20 09:09 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene         | <255    | ug/kg  | 255  | 255  | 1  |          | 06/24/20 09:09 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene         | <255    | ug/kg  | 255  | 255  | 1  |          | 06/24/20 09:09 | 120-82-1   |      |
| 1,1,1-Trichloroethane          | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 06/24/20 09:09 | 71-55-6    |      |
| 1,1,2-Trichloroethane          | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 06/24/20 09:09 | 79-00-5    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-129 (3-4)**      **Lab ID: 50260268011**      Collected: 06/15/20 11:56      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|---------|--|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Trichloroethene                | <51.0   | ug/kg  | 51.0   | 51.0 | 1  |          | 06/24/20 09:09 | 79-01-6     |      |
| Trichlorofluoromethane         | <102    | ug/kg  | 102    | 102  | 1  |          | 06/24/20 09:09 | 75-69-4     |      |
| 1,2,3-Trichloropropane         | <102    | ug/kg  | 102    | 102  | 1  |          | 06/24/20 09:09 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene         | <255    | ug/kg  | 255    | 255  | 1  |          | 06/24/20 09:09 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene         | <102    | ug/kg  | 102    | 102  | 1  |          | 06/24/20 09:09 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | <102    | ug/kg  | 102    | 102  | 1  |          | 06/24/20 09:09 | 108-67-8    |      |
| Vinyl chloride                 | <40.8   | ug/kg  | 40.8   | 40.8 | 1  |          | 06/24/20 09:09 | 75-01-4     |      |
| m&p-Xylene                     | <25.5   | ug/kg  | 51.0   | 25.5 | 1  |          | 06/24/20 09:09 | 179601-23-1 |      |
| o-Xylene                       | <25.5   | ug/kg  | 51.0   | 25.5 | 1  |          | 06/24/20 09:09 | 95-47-6     |      |
| <b>Surrogates</b>              |         |  |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)       | 104     | %  | 62-137 |      | 1  |          | 06/24/20 09:09 | 1868-53-7   |      |
| Toluene-d8 (S)                 | 100     | %  | 64-139 |      | 1  |          | 06/24/20 09:09 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)       | 104     | %  | 60-142 |      | 1  |          | 06/24/20 09:09 | 460-00-4    |      |
| <b>Percent Moisture</b>        |         | Analytical Method: SM 2540G<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Percent Moisture               | 4.7     | %  | 0.10   | 0.10 | 1  |          | 06/23/20 14:21 |             |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-130 (4-5)**      **Lab ID: 50260268012**      Collected: 06/15/20 14:22      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL    | DF  | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|--------|--------|-----|----------------|----------------|------------|------|
| <b>8015M Alcohols in solids</b>                                |         |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                     |         |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |            |      |
| n-Butanol  | <4650   | ug/kg | 4650   | 4650   | 1   |                | 06/22/20 18:03 | 71-36-3    |      |
| Ethanol  | <2640   | ug/kg | 2640   | 2640   | 1   |                | 06/22/20 18:03 | 64-17-5    |      |
| Methanol   | <4650   | ug/kg | 4650   | 4650   | 1   |                | 06/22/20 18:03 | 67-56-1    |      |
| <b>8082 GCS PCB Solids</b>                                     |         |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 8082      Preparation Method: EPA 3546  |         |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |            |      |
| PCB-1016 (Aroclor 1016)  | <349    | ug/kg | 349    | 349    | 1   | 06/24/20 21:50 | 06/25/20 18:22 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)  | <349    | ug/kg | 349    | 349    | 1   | 06/24/20 21:50 | 06/25/20 18:22 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)  | <349    | ug/kg | 349    | 349    | 1   | 06/24/20 21:50 | 06/25/20 18:22 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)  | <349    | ug/kg | 349    | 349    | 1   | 06/24/20 21:50 | 06/25/20 18:22 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)  | <349    | ug/kg | 349    | 349    | 1   | 06/24/20 21:50 | 06/25/20 18:22 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)  | <349    | ug/kg | 349    | 349    | 1   | 06/24/20 21:50 | 06/25/20 18:22 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)  | <349    | ug/kg | 349    | 349    | 1   | 06/24/20 21:50 | 06/25/20 18:22 | 11096-82-5 |      |
| PCB-1262 (Aroclor 1262)  | <349    | ug/kg | 349    | 349    | 1   | 06/24/20 21:50 | 06/25/20 18:22 | 37324-23-5 | N2   |
| PCB-1268 (Aroclor 1268)  | <349    | ug/kg | 349    | 349    | 1   | 06/24/20 21:50 | 06/25/20 18:22 | 11100-14-4 | N2   |
| <b>Surrogates</b>  |         |       |        |        |     |                |                |            |      |
| Tetrachloro-m-xylene (S)                                       | 75      | %     | 25-123 |        | 1   | 06/24/20 21:50 | 06/25/20 18:22 | 877-09-8   |      |
| <b>6010 MET ICP</b>  |         |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050  |         |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |            |      |
| Antimony   | <985    | ug/kg | 985    | 985    | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7440-36-0  |      |
| Arsenic  | <1970   | ug/kg | 1970   | 1970   | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7440-38-2  |      |
| Barium   | 9000    | ug/kg | 985    | 985    | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7440-39-3  |      |
| Beryllium  | <492    | ug/kg | 492    | 492    | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7440-41-7  |      |
| Boron  | <7880   | ug/kg | 7880   | 7880   | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7440-42-8  |      |
| Calcium  | 927000  | ug/kg | 49200  | 6530   | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7440-70-2  |      |
| Chromium   | 5510    | ug/kg | 1970   | 1970   | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7440-47-3  |      |
| Copper   | 1440    | ug/kg | 985    | 985    | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7440-50-8  |      |
| Iron   | 3160000 | ug/kg | 24600  | 7480   | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7439-89-6  |      |
| Lead   | <9850   | ug/kg | 9850   | 9850   | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7439-92-1  |      |
| Magnesium  | 730000  | ug/kg | 24600  | 3940   | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7439-95-4  |      |
| Manganese  | 25900   | ug/kg | 985    | 985    | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7439-96-5  |      |
| Molybdenum   | <985    | ug/kg | 985    | 985    | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7439-98-7  |      |
| Nickel   | 4170    | ug/kg | 985    | 985    | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7440-02-0  |      |
| Potassium  | 143000  | ug/kg | 49200  | 4810   | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7440-09-7  |      |
| Sodium   | 21700J  | ug/kg | 24600  | 13400  | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7440-23-5  |      |
| Strontium  | <4920   | ug/kg | 4920   | 4920   | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7440-24-6  |      |
| Vanadium   | 7980    | ug/kg | 985    | 985    | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7440-62-2  |      |
| Zinc   | 9160    | ug/kg | 985    | 985    | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7440-66-6  |      |
| <b>6020 MET ICPMS</b>  |         |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B |         |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |            |      |
| Aluminum   | 4020000 | ug/kg | 105000 | 105000 | 100 | 06/24/20 09:22 | 06/30/20 01:36 | 7429-90-5  |      |
| Cadmium  | <210    | ug/kg | 210    | 210    | 1   | 06/24/20 09:22 | 06/25/20 16:07 | 7440-43-9  |      |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-130 (4-5)**      **Lab ID: 50260268012**      Collected: 06/15/20 14:22      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL   | MDL  | DF  | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|-------|------|-----|----------------|----------------|-----------|------|
| <b>6020 MET ICPMS</b>                                     |         |       |       |      |     |                |                |           |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B |         |       |       |      |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |      |     |                |                |           |      |
| Cobalt  | 1260    | ug/kg | 526   | 526  | 1   | 06/24/20 09:22 | 06/25/20 16:07 | 7440-48-4 |      |
| Selenium  | <210    | ug/kg | 210   | 210  | 1   | 06/24/20 09:22 | 06/25/20 16:07 | 7782-49-2 |      |
| Silver  | <105    | ug/kg | 105   | 105  | 1   | 06/24/20 09:22 | 06/25/20 16:07 | 7440-22-4 |      |
| Thallium  | <526    | ug/kg | 526   | 526  | 1   | 06/24/20 09:22 | 06/25/20 16:07 | 7440-28-0 |      |
| Titanium  | 229000  | ug/kg | 10500 | 2800 | 100 | 06/24/20 09:22 | 06/30/20 01:36 | 7440-32-6 | N2   |
| <b>7471 Mercury</b>                                       |         |       |       |      |     |                |                |           |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471  |         |       |       |      |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |      |     |                |                |           |      |
| Mercury   | <83.0   | ug/kg | 105   | 83.0 | 1   | 06/26/20 02:49 | 06/26/20 07:42 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                  |         |       |       |      |     |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546  |         |       |       |      |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |      |     |                |                |           |      |
| Acenaphthene  | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 83-32-9   |      |
| Acenaphthylene  | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 208-96-8  |      |
| Anthracene  | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 120-12-7  |      |
| Benzo(a)anthracene  | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 56-55-3   |      |
| Benzo(a)pyrene  | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 50-32-8   |      |
| Benzo(b)fluoranthene                                      | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 205-99-2  |      |
| Benzo(g,h,i)perylene                                      | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 191-24-2  |      |
| Benzo(k)fluoranthene                                      | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 207-08-9  |      |
| 4-Bromophenylphenyl ether                                 | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 101-55-3  |      |
| Butylbenzylphthalate                                      | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 85-68-7   |      |
| Carbazole   | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                   | <295    | ug/kg | 348   | 295  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                                | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                  | <169    | ug/kg | 348   | 169  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                              | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 108-60-1  |      |
| 2-Chloronaphthalene                                       | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 91-58-7   |      |
| 2-Chlorophenol  | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                                | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 7005-72-3 |      |
| Chrysene  | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                     | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 53-70-3   |      |
| Dibenzofuran  | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 132-64-9  |      |
| 2,4-Dichlorophenol  | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 120-83-2  |      |
| Diethylphthalate  | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 84-66-2   |      |
| 2,4-Dimethylphenol  | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 105-67-9  |      |
| Dimethylphthalate   | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 131-11-3  |      |
| Di-n-butylphthalate                                       | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                                | <875    | ug/kg | 875   | 875  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 534-52-1  |      |
| 2,4-Dinitrophenol   | <1690   | ug/kg | 1690  | 1690 | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 51-28-5   |      |
| 2,4-Dinitrotoluene  | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 121-14-2  |      |
| 2,6-Dinitrotoluene  | <93.3   | ug/kg | 348   | 93.3 | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 606-20-2  |      |
| Di-n-octylphthalate                                       | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                     | <1690   | ug/kg | 1690  | 1690 | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 122-66-7  |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-130 (4-5)**      **Lab ID: 50260268012**      Collected: 06/15/20 14:22      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                    |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| bis(2-Ethylhexyl)phthalate                                  | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 117-81-7  |      |
| Fluoranthene  | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 206-44-0  | L1   |
| Fluorene  | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                    | <101    | ug/kg | 348    | 101  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 87-68-3   |      |
| Hexachlorobenzene   | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                   | <1050   | ug/kg | 1050   | 1050 | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 77-47-4   |      |
| Hexachloroethane  | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                      | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 193-39-5  |      |
| Isophorone  | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 78-59-1   |      |
| 2-Methylnaphthalene   | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                    | <1050   | ug/kg | 1050   | 1050 | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                                | <1050   | ug/kg | 1050   | 1050 | 1  | 06/24/20 23:00 | 06/25/20 19:21 |           |      |
| Naphthalene   | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 91-20-3   |      |
| 2-Nitroaniline  | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 88-74-4   |      |
| 3-Nitroaniline  | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 99-09-2   |      |
| 4-Nitroaniline  | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 100-01-6  |      |
| Nitrobenzene  | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 98-95-3   |      |
| 2-Nitrophenol   | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 88-75-5   |      |
| 4-Nitrophenol   | <1690   | ug/kg | 1690   | 1690 | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 100-02-7  |      |
| N-Nitrosodimethylamine                                      | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                                  | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                      | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 86-30-6   |      |
| Pentachlorophenol   | <1550   | ug/kg | 1690   | 1550 | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 87-86-5   |      |
| Phenanthrene  | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 85-01-8   |      |
| Phenol  | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 108-95-2  |      |
| Pyrene  | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                      | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                       | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                       | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 88-06-2   |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)   | 52      | %     | 26-96  |      | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 4165-60-0 |      |
| Phenol-d5 (S)   | 77      | %     | 32-93  |      | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 4165-62-2 |      |
| 2-Fluorophenol (S)  | 90      | %     | 24-95  |      | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                    | 78      | %     | 20-109 |      | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 118-79-6  |      |
| 2-Fluorobiphenyl (S)  | 78      | %     | 36-91  |      | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 79      | %     | 27-117 |      | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                              |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                                 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| Acetone   | <991    | ug/kg | 991    | 991  | 1  |                | 06/24/20 09:43 | 67-64-1   |      |
| Acrylonitrile   | <99.1   | ug/kg | 99.1   | 99.1 | 1  |                | 06/24/20 09:43 | 107-13-1  |      |
| tert-Amylmethyl ether                                       | <248    | ug/kg | 248    | 248  | 1  |                | 06/24/20 09:43 | 994-05-8  | N2   |
| Benzene   | <49.6   | ug/kg | 49.6   | 49.6 | 1  |                | 06/24/20 09:43 | 71-43-2   |      |
| Bromobenzene  | <99.1   | ug/kg | 99.1   | 99.1 | 1  |                | 06/24/20 09:43 | 108-86-1  |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

Sample: MW-130 (4-5) Lab ID: 50260268012 Collected: 06/15/20 14:22 Received: 06/18/20 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Bromochloromethane             | <24.8   | ug/kg  | 49.6 | 24.8 | 1  |          | 06/24/20 09:43 | 74-97-5    |      |
| Bromodichloromethane           | <99.1   | ug/kg  | 99.1 | 99.1 | 1  |          | 06/24/20 09:43 | 75-27-4    |      |
| Bromoform                      | <99.1   | ug/kg  | 99.1 | 99.1 | 1  |          | 06/24/20 09:43 | 75-25-2    |      |
| Bromomethane                   | <198    | ug/kg  | 198  | 198  | 1  |          | 06/24/20 09:43 | 74-83-9    |      |
| 2-Butanone (MEK)               | <743    | ug/kg  | 743  | 743  | 1  |          | 06/24/20 09:43 | 78-93-3    |      |
| tert-Butyl Alcohol             | <2480   | ug/kg  | 2480 | 2480 | 1  |          | 06/24/20 09:43 | 75-65-0    |      |
| n-Butylbenzene                 | <49.6   | ug/kg  | 49.6 | 49.6 | 1  |          | 06/24/20 09:43 | 104-51-8   |      |
| sec-Butylbenzene               | <49.6   | ug/kg  | 49.6 | 49.6 | 1  |          | 06/24/20 09:43 | 135-98-8   |      |
| tert-Butylbenzene              | <49.6   | ug/kg  | 49.6 | 49.6 | 1  |          | 06/24/20 09:43 | 98-06-6    |      |
| Carbon disulfide               | <248    | ug/kg  | 248  | 248  | 1  |          | 06/24/20 09:43 | 75-15-0    |      |
| Carbon tetrachloride           | <49.6   | ug/kg  | 49.6 | 49.6 | 1  |          | 06/24/20 09:43 | 56-23-5    |      |
| Chlorobenzene                  | <49.6   | ug/kg  | 49.6 | 49.6 | 1  |          | 06/24/20 09:43 | 108-90-7   |      |
| Chloroethane                   | <248    | ug/kg  | 248  | 248  | 1  |          | 06/24/20 09:43 | 75-00-3    |      |
| Chloroform                     | <49.6   | ug/kg  | 49.6 | 49.6 | 1  |          | 06/24/20 09:43 | 67-66-3    |      |
| Chloromethane                  | <248    | ug/kg  | 248  | 248  | 1  |          | 06/24/20 09:43 | 74-87-3    |      |
| Cyclohexane                    | <496    | ug/kg  | 496  | 496  | 1  |          | 06/24/20 09:43 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <49.6   | ug/kg  | 49.6 | 49.6 | 1  |          | 06/24/20 09:43 | 96-12-8    |      |
| Dibromochloromethane           | <99.1   | ug/kg  | 99.1 | 99.1 | 1  |          | 06/24/20 09:43 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <49.6   | ug/kg  | 49.6 | 49.6 | 1  |          | 06/24/20 09:43 | 106-93-4   |      |
| Dibromomethane                 | <248    | ug/kg  | 248  | 248  | 1  |          | 06/24/20 09:43 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <99.1   | ug/kg  | 99.1 | 99.1 | 1  |          | 06/24/20 09:43 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <99.1   | ug/kg  | 99.1 | 99.1 | 1  |          | 06/24/20 09:43 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <99.1   | ug/kg  | 99.1 | 99.1 | 1  |          | 06/24/20 09:43 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <99.1   | ug/kg  | 99.1 | 99.1 | 1  |          | 06/24/20 09:43 | 110-57-6   |      |
| Dichlorodifluoromethane        | <248    | ug/kg  | 248  | 248  | 1  |          | 06/24/20 09:43 | 75-71-8    |      |
| 1,1-Dichloroethane             | <49.6   | ug/kg  | 49.6 | 49.6 | 1  |          | 06/24/20 09:43 | 75-34-3    |      |
| 1,2-Dichloroethane             | <49.6   | ug/kg  | 49.6 | 49.6 | 1  |          | 06/24/20 09:43 | 107-06-2   |      |
| 1,1-Dichloroethene             | <49.6   | ug/kg  | 49.6 | 49.6 | 1  |          | 06/24/20 09:43 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <49.6   | ug/kg  | 49.6 | 49.6 | 1  |          | 06/24/20 09:43 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <49.6   | ug/kg  | 49.6 | 49.6 | 1  |          | 06/24/20 09:43 | 156-60-5   |      |
| 1,2-Dichloropropane            | <49.6   | ug/kg  | 49.6 | 49.6 | 1  |          | 06/24/20 09:43 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <99.1   | ug/kg  | 99.1 | 99.1 | 1  |          | 06/24/20 09:43 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <99.1   | ug/kg  | 99.1 | 99.1 | 1  |          | 06/24/20 09:43 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <198    | ug/kg  | 198  | 198  | 1  |          | 06/24/20 09:43 | 60-29-7    |      |
| Diisopropyl ether              | <248    | ug/kg  | 248  | 248  | 1  |          | 06/24/20 09:43 | 108-20-3   | N2   |
| Ethylbenzene                   | <49.6   | ug/kg  | 49.6 | 49.6 | 1  |          | 06/24/20 09:43 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <248    | ug/kg  | 248  | 248  | 1  |          | 06/24/20 09:43 | 637-92-3   | N2   |
| Hexachloroethane               | <297    | ug/kg  | 297  | 297  | 1  |          | 06/24/20 09:43 | 67-72-1    | N2   |
| 2-Hexanone                     | <2480   | ug/kg  | 2480 | 2480 | 1  |          | 06/24/20 09:43 | 591-78-6   |      |
| Iodomethane                    | <99.1   | ug/kg  | 99.1 | 99.1 | 1  |          | 06/24/20 09:43 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <248    | ug/kg  | 248  | 248  | 1  |          | 06/24/20 09:43 | 98-82-8    |      |
| p-Isopropyltoluene             | <24.8   | ug/kg  | 49.6 | 24.8 | 1  |          | 06/24/20 09:43 | 99-87-6    |      |
| Methylene Chloride             | <99.1   | ug/kg  | 99.1 | 99.1 | 1  |          | 06/24/20 09:43 | 75-09-2    |      |
| 2-Methylnaphthalene            | <327    | ug/kg  | 327  | 327  | 1  |          | 06/24/20 09:43 | 91-57-6    |      |

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-130 (4-5)**      **Lab ID: 50260268012**      Collected: 06/15/20 14:22      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| 4-Methyl-2-pentanone (MIBK)             | <2480   | ug/kg | 2480   | 2480 | 1  |          | 06/24/20 09:43 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <248    | ug/kg | 248    | 248  | 1  |          | 06/24/20 09:43 | 1634-04-4   |      |
| Naphthalene                             | <327    | ug/kg | 327    | 327  | 1  |          | 06/24/20 09:43 | 91-20-3     |      |
| n-Propylbenzene                         | <99.1   | ug/kg | 99.1   | 99.1 | 1  |          | 06/24/20 09:43 | 103-65-1    |      |
| Styrene                                 | <49.6   | ug/kg | 49.6   | 49.6 | 1  |          | 06/24/20 09:43 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <99.1   | ug/kg | 99.1   | 99.1 | 1  |          | 06/24/20 09:43 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <49.6   | ug/kg | 49.6   | 49.6 | 1  |          | 06/24/20 09:43 | 79-34-5     |      |
| Tetrachloroethene                       | <49.6   | ug/kg | 49.6   | 49.6 | 1  |          | 06/24/20 09:43 | 127-18-4    |      |
| Tetrahydrofuran                         | <991    | ug/kg | 991    | 991  | 1  |          | 06/24/20 09:43 | 109-99-9    | N2   |
| Toluene                                 | <99.1   | ug/kg | 99.1   | 99.1 | 1  |          | 06/24/20 09:43 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <248    | ug/kg | 248    | 248  | 1  |          | 06/24/20 09:43 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <248    | ug/kg | 248    | 248  | 1  |          | 06/24/20 09:43 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <49.6   | ug/kg | 49.6   | 49.6 | 1  |          | 06/24/20 09:43 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <49.6   | ug/kg | 49.6   | 49.6 | 1  |          | 06/24/20 09:43 | 79-00-5     |      |
| Trichloroethene                         | <49.6   | ug/kg | 49.6   | 49.6 | 1  |          | 06/24/20 09:43 | 79-01-6     |      |
| Trichlorofluoromethane                  | <99.1   | ug/kg | 99.1   | 99.1 | 1  |          | 06/24/20 09:43 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <99.1   | ug/kg | 99.1   | 99.1 | 1  |          | 06/24/20 09:43 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <248    | ug/kg | 248    | 248  | 1  |          | 06/24/20 09:43 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <99.1   | ug/kg | 99.1   | 99.1 | 1  |          | 06/24/20 09:43 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <99.1   | ug/kg | 99.1   | 99.1 | 1  |          | 06/24/20 09:43 | 108-67-8    |      |
| Vinyl chloride                          | <39.6   | ug/kg | 39.6   | 39.6 | 1  |          | 06/24/20 09:43 | 75-01-4     |      |
| m&p-Xylene                              | <24.8   | ug/kg | 49.6   | 24.8 | 1  |          | 06/24/20 09:43 | 179601-23-1 |      |
| o-Xylene                                | <24.8   | ug/kg | 49.6   | 24.8 | 1  |          | 06/24/20 09:43 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 104     | %     | 62-137 |      | 1  |          | 06/24/20 09:43 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 102     | %     | 64-139 |      | 1  |          | 06/24/20 09:43 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 105     | %     | 60-142 |      | 1  |          | 06/24/20 09:43 | 460-00-4    |      |

**Percent Moisture**

Analytical Method: SM 2540G  
Pace Analytical Services - Indianapolis

|                  |     |   |      |      |   |  |                |  |  |
|------------------|-----|---|------|------|---|--|----------------|--|--|
| Percent Moisture | 5.4 | % | 0.10 | 0.10 | 1 |  | 06/23/20 14:21 |  |  |
|------------------|-----|---|------|------|---|--|----------------|--|--|

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-131 (2-3)**      **Lab ID: 50260268013**      Collected: 06/15/20 13:55      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL    | DF  | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|--------|-----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                     |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| n-Butanol  | <5650   | ug/kg | 5650   | 5650   | 1   |                | 06/22/20 18:12 | 71-36-3   |      |
| Ethanol  | <3210   | ug/kg | 3210   | 3210   | 1   |                | 06/22/20 18:12 | 64-17-5   |      |
| Methanol   | <5650   | ug/kg | 5650   | 5650   | 1   |                | 06/22/20 18:12 | 67-56-1   |      |
| <b>6010 MET ICP</b>  |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050  |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| Antimony   | <1140   | ug/kg | 1140   | 1140   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7440-36-0 |      |
| Arsenic  | <2290   | ug/kg | 2290   | 2290   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7440-38-2 |      |
| Barium   | 14300   | ug/kg | 1140   | 1140   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7440-39-3 |      |
| Beryllium  | <572    | ug/kg | 572    | 572    | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7440-41-7 |      |
| Boron  | <9160   | ug/kg | 9160   | 9160   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7440-42-8 |      |
| Calcium  | 2600000 | ug/kg | 57200  | 7590   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7440-70-2 |      |
| Chromium   | 7550    | ug/kg | 2290   | 2290   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7440-47-3 |      |
| Copper   | 6650    | ug/kg | 1140   | 1140   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7440-50-8 |      |
| Iron   | 5240000 | ug/kg | 28600  | 8700   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7439-89-6 |      |
| Lead   | 16800   | ug/kg | 11400  | 11400  | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7439-92-1 |      |
| Magnesium  | 1130000 | ug/kg | 28600  | 4580   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7439-95-4 |      |
| Manganese  | 66400   | ug/kg | 1140   | 1140   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7439-96-5 |      |
| Molybdenum   | <1140   | ug/kg | 1140   | 1140   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7439-98-7 |      |
| Nickel   | 4460    | ug/kg | 1140   | 1140   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7440-02-0 |      |
| Potassium  | 191000  | ug/kg | 57200  | 5600   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7440-09-7 |      |
| Sodium   | 27700J  | ug/kg | 28600  | 15600  | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7440-23-5 |      |
| Strontium  | <5720   | ug/kg | 5720   | 5720   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7440-24-6 |      |
| Vanadium   | 10800   | ug/kg | 1140   | 1140   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7440-62-2 |      |
| Zinc   | 33700   | ug/kg | 1140   | 1140   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7440-66-6 |      |
| <b>6020 MET ICPMS</b>  |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| Aluminum   | 5290000 | ug/kg | 125000 | 125000 | 100 | 06/24/20 09:22 | 06/30/20 01:40 | 7429-90-5 |      |
| Cadmium  | <250    | ug/kg | 250    | 250    | 1   | 06/24/20 09:22 | 06/25/20 16:17 | 7440-43-9 |      |
| Cobalt   | 2120    | ug/kg | 624    | 624    | 1   | 06/24/20 09:22 | 06/25/20 16:17 | 7440-48-4 |      |
| Selenium   | 319     | ug/kg | 250    | 250    | 1   | 06/24/20 09:22 | 06/25/20 16:17 | 7782-49-2 |      |
| Silver   | 203     | ug/kg | 125    | 125    | 1   | 06/24/20 09:22 | 06/25/20 16:17 | 7440-22-4 |      |
| Thallium   | <624    | ug/kg | 624    | 624    | 1   | 06/24/20 09:22 | 06/25/20 16:17 | 7440-28-0 |      |
| Titanium   | 218000  | ug/kg | 12500  | 3320   | 100 | 06/24/20 09:22 | 06/30/20 01:40 | 7440-32-6 | N2   |
| <b>7471 Mercury</b>  |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 7471      Preparation Method: EPA 7471  |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| Mercury  | <101    | ug/kg | 128    | 101    | 1   | 06/26/20 02:49 | 06/26/20 07:45 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                       |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 8270      Preparation Method: EPA 3546  |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| Acenaphthene   | <422    | ug/kg | 422    | 422    | 1   | 06/26/20 14:45 | 06/29/20 23:44 | 83-32-9   |      |
| Acenaphthylene   | <422    | ug/kg | 422    | 422    | 1   | 06/26/20 14:45 | 06/29/20 23:44 | 208-96-8  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-131 (2-3)**      **Lab ID: 50260268013**      Collected: 06/15/20 13:55      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                 |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |      |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |      |      |    |                |                |           |      |
| Anthracene   | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 120-12-7  |      |
| Benzo(a)anthracene                                       | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 56-55-3   |      |
| Benzo(a)pyrene   | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 50-32-8   |      |
| Benzo(b)fluoranthene                                     | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 205-99-2  |      |
| Benzo(g,h,i)perylene                                     | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 191-24-2  |      |
| Benzo(k)fluoranthene                                     | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 207-08-9  |      |
| 4-Bromophenylphenyl ether                                | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 101-55-3  |      |
| Butylbenzylphthalate                                     | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 85-68-7   |      |
| Carbazole  | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                  | <358    | ug/kg | 422  | 358  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                               | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                 | <205    | ug/kg | 422  | 205  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                             | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 108-60-1  |      |
| 2-Chloronaphthalene                                      | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 91-58-7   |      |
| 2-Chlorophenol   | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                               | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 7005-72-3 |      |
| Chrysene   | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                    | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 53-70-3   |      |
| Dibenzofuran   | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 132-64-9  |      |
| 2,4-Dichlorophenol                                       | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 120-83-2  |      |
| Diethylphthalate   | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 84-66-2   |      |
| 2,4-Dimethylphenol                                       | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 105-67-9  |      |
| Dimethylphthalate  | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 131-11-3  |      |
| Di-n-butylphthalate                                      | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                               | <1060   | ug/kg | 1060 | 1060 | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 534-52-1  |      |
| 2,4-Dinitrophenol  | <2050   | ug/kg | 2050 | 2050 | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 51-28-5   |      |
| 2,4-Dinitrotoluene                                       | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 121-14-2  |      |
| 2,6-Dinitrotoluene                                       | <113    | ug/kg | 422  | 113  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 606-20-2  |      |
| Di-n-octylphthalate                                      | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                    | <2050   | ug/kg | 2050 | 2050 | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate                               | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 117-81-7  |      |
| Fluoranthene   | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 206-44-0  |      |
| Fluorene   | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                 | <123    | ug/kg | 422  | 123  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 87-68-3   |      |
| Hexachlorobenzene  | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                | <1280   | ug/kg | 1280 | 1280 | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 77-47-4   |      |
| Hexachloroethane   | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                   | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 193-39-5  |      |
| Isophorone   | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 78-59-1   |      |
| 2-Methylnaphthalene                                      | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                 | <1280   | ug/kg | 1280 | 1280 | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                             | <1280   | ug/kg | 1280 | 1280 | 1  | 06/26/20 14:45 | 06/29/20 23:44 |           |      |
| Naphthalene  | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 91-20-3   |      |
| 2-Nitroaniline   | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 88-74-4   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-131 (2-3)**      **Lab ID: 50260268013**      Collected: 06/15/20 13:55      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                 |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |        |      |    |                |                |           |      |
| 3-Nitroaniline   | <422    | ug/kg | 422    | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 99-09-2   |      |
| 4-Nitroaniline   | <422    | ug/kg | 422    | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 100-01-6  |      |
| Nitrobenzene   | <422    | ug/kg | 422    | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 98-95-3   |      |
| 2-Nitrophenol  | <422    | ug/kg | 422    | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 88-75-5   |      |
| 4-Nitrophenol  | <2050   | ug/kg | 2050   | 2050 | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 100-02-7  |      |
| N-Nitrosodimethylamine                                   | <422    | ug/kg | 422    | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                               | <422    | ug/kg | 422    | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                   | <422    | ug/kg | 422    | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 86-30-6   |      |
| Pentachlorophenol  | <1880   | ug/kg | 2050   | 1880 | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 87-86-5   |      |
| Phenanthrene   | <422    | ug/kg | 422    | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 85-01-8   |      |
| Phenol   | <422    | ug/kg | 422    | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 108-95-2  |      |
| Pyrene   | <422    | ug/kg | 422    | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                   | <422    | ug/kg | 422    | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                    | <422    | ug/kg | 422    | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                    | <422    | ug/kg | 422    | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)                                      | 73      | %     | 26-96  |      | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 4165-60-0 |      |
| Phenol-d5 (S)  | 75      | %     | 32-93  |      | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 4165-62-2 |      |
| 2-Fluorophenol (S)                                       | 76      | %     | 24-95  |      | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                 | 73      | %     | 20-109 |      | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 118-79-6  |      |
| 2-Fluorobiphenyl (S)                                     | 64      | %     | 36-91  |      | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 321-60-8  |      |
| p-Terphenyl-d14 (S)                                      | 78      | %     | 27-117 |      | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                           |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                              |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |        |      |    |                |                |           |      |
| Acetone  | <1480   | ug/kg | 1480   | 1480 | 1  |                | 06/24/20 10:16 | 67-64-1   |      |
| Acrylonitrile  | <148    | ug/kg | 148    | 148  | 1  |                | 06/24/20 10:16 | 107-13-1  |      |
| tert-Amylmethyl ether                                    | <371    | ug/kg | 371    | 371  | 1  |                | 06/24/20 10:16 | 994-05-8  | N2   |
| Benzene  | <74.2   | ug/kg | 74.2   | 74.2 | 1  |                | 06/24/20 10:16 | 71-43-2   |      |
| Bromobenzene   | <148    | ug/kg | 148    | 148  | 1  |                | 06/24/20 10:16 | 108-86-1  |      |
| Bromochloromethane                                       | <37.1   | ug/kg | 74.2   | 37.1 | 1  |                | 06/24/20 10:16 | 74-97-5   |      |
| Bromodichloromethane                                     | <148    | ug/kg | 148    | 148  | 1  |                | 06/24/20 10:16 | 75-27-4   |      |
| Bromoform  | <148    | ug/kg | 148    | 148  | 1  |                | 06/24/20 10:16 | 75-25-2   |      |
| Bromomethane   | <297    | ug/kg | 297    | 297  | 1  |                | 06/24/20 10:16 | 74-83-9   |      |
| 2-Butanone (MEK)   | <1110   | ug/kg | 1110   | 1110 | 1  |                | 06/24/20 10:16 | 78-93-3   |      |
| tert-Butyl Alcohol                                       | <3710   | ug/kg | 3710   | 3710 | 1  |                | 06/24/20 10:16 | 75-65-0   |      |
| n-Butylbenzene   | <74.2   | ug/kg | 74.2   | 74.2 | 1  |                | 06/24/20 10:16 | 104-51-8  |      |
| sec-Butylbenzene   | <74.2   | ug/kg | 74.2   | 74.2 | 1  |                | 06/24/20 10:16 | 135-98-8  |      |
| tert-Butylbenzene  | <74.2   | ug/kg | 74.2   | 74.2 | 1  |                | 06/24/20 10:16 | 98-06-6   |      |
| Carbon disulfide   | <371    | ug/kg | 371    | 371  | 1  |                | 06/24/20 10:16 | 75-15-0   |      |
| Carbon tetrachloride                                     | <74.2   | ug/kg | 74.2   | 74.2 | 1  |                | 06/24/20 10:16 | 56-23-5   |      |
| Chlorobenzene  | <74.2   | ug/kg | 74.2   | 74.2 | 1  |                | 06/24/20 10:16 | 108-90-7  |      |
| Chloroethane   | <371    | ug/kg | 371    | 371  | 1  |                | 06/24/20 10:16 | 75-00-3   |      |
| Chloroform   | <74.2   | ug/kg | 74.2   | 74.2 | 1  |                | 06/24/20 10:16 | 67-66-3   |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

**Sample: MW-131 (2-3)**      **Lab ID: 50260268013**      Collected: 06/15/20 13:55      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Chloromethane                  | <371    | ug/kg  | 371  | 371  | 1  |          | 06/24/20 10:16 | 74-87-3    |      |
| Cyclohexane                    | <742    | ug/kg  | 742  | 742  | 1  |          | 06/24/20 10:16 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <74.2   | ug/kg  | 74.2 | 74.2 | 1  |          | 06/24/20 10:16 | 96-12-8    |      |
| Dibromochloromethane           | <148    | ug/kg  | 148  | 148  | 1  |          | 06/24/20 10:16 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <74.2   | ug/kg  | 74.2 | 74.2 | 1  |          | 06/24/20 10:16 | 106-93-4   |      |
| Dibromomethane                 | <371    | ug/kg  | 371  | 371  | 1  |          | 06/24/20 10:16 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <148    | ug/kg  | 148  | 148  | 1  |          | 06/24/20 10:16 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <148    | ug/kg  | 148  | 148  | 1  |          | 06/24/20 10:16 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <148    | ug/kg  | 148  | 148  | 1  |          | 06/24/20 10:16 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <148    | ug/kg  | 1480 | 148  | 1  |          | 06/24/20 10:16 | 110-57-6   |      |
| Dichlorodifluoromethane        | <371    | ug/kg  | 371  | 371  | 1  |          | 06/24/20 10:16 | 75-71-8    |      |
| 1,1-Dichloroethane             | <74.2   | ug/kg  | 74.2 | 74.2 | 1  |          | 06/24/20 10:16 | 75-34-3    |      |
| 1,2-Dichloroethane             | <74.2   | ug/kg  | 74.2 | 74.2 | 1  |          | 06/24/20 10:16 | 107-06-2   |      |
| 1,1-Dichloroethene             | <74.2   | ug/kg  | 74.2 | 74.2 | 1  |          | 06/24/20 10:16 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <74.2   | ug/kg  | 74.2 | 74.2 | 1  |          | 06/24/20 10:16 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <74.2   | ug/kg  | 74.2 | 74.2 | 1  |          | 06/24/20 10:16 | 156-60-5   |      |
| 1,2-Dichloropropane            | <74.2   | ug/kg  | 74.2 | 74.2 | 1  |          | 06/24/20 10:16 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <148    | ug/kg  | 148  | 148  | 1  |          | 06/24/20 10:16 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <148    | ug/kg  | 148  | 148  | 1  |          | 06/24/20 10:16 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <297    | ug/kg  | 297  | 297  | 1  |          | 06/24/20 10:16 | 60-29-7    |      |
| Diisopropyl ether              | <371    | ug/kg  | 371  | 371  | 1  |          | 06/24/20 10:16 | 108-20-3   | N2   |
| Ethylbenzene                   | <74.2   | ug/kg  | 74.2 | 74.2 | 1  |          | 06/24/20 10:16 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <371    | ug/kg  | 371  | 371  | 1  |          | 06/24/20 10:16 | 637-92-3   | N2   |
| Hexachloroethane               | <445    | ug/kg  | 445  | 445  | 1  |          | 06/24/20 10:16 | 67-72-1    | N2   |
| 2-Hexanone                     | <3710   | ug/kg  | 3710 | 3710 | 1  |          | 06/24/20 10:16 | 591-78-6   |      |
| Iodomethane                    | <148    | ug/kg  | 1480 | 148  | 1  |          | 06/24/20 10:16 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <371    | ug/kg  | 371  | 371  | 1  |          | 06/24/20 10:16 | 98-82-8    |      |
| p-Isopropyltoluene             | <37.1   | ug/kg  | 74.2 | 37.1 | 1  |          | 06/24/20 10:16 | 99-87-6    |      |
| Methylene Chloride             | <148    | ug/kg  | 148  | 148  | 1  |          | 06/24/20 10:16 | 75-09-2    |      |
| 2-Methylnaphthalene            | <490    | ug/kg  | 490  | 490  | 1  |          | 06/24/20 10:16 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)    | <3710   | ug/kg  | 3710 | 3710 | 1  |          | 06/24/20 10:16 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <371    | ug/kg  | 371  | 371  | 1  |          | 06/24/20 10:16 | 1634-04-4  |      |
| Naphthalene                    | <490    | ug/kg  | 490  | 490  | 1  |          | 06/24/20 10:16 | 91-20-3    |      |
| n-Propylbenzene                | <148    | ug/kg  | 148  | 148  | 1  |          | 06/24/20 10:16 | 103-65-1   |      |
| Styrene                        | <74.2   | ug/kg  | 74.2 | 74.2 | 1  |          | 06/24/20 10:16 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <148    | ug/kg  | 148  | 148  | 1  |          | 06/24/20 10:16 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane      | <74.2   | ug/kg  | 74.2 | 74.2 | 1  |          | 06/24/20 10:16 | 79-34-5    |      |
| Tetrachloroethene              | <74.2   | ug/kg  | 74.2 | 74.2 | 1  |          | 06/24/20 10:16 | 127-18-4   |      |
| Tetrahydrofuran                | <1480   | ug/kg  | 1480 | 1480 | 1  |          | 06/24/20 10:16 | 109-99-9   | N2   |
| Toluene                        | <148    | ug/kg  | 148  | 148  | 1  |          | 06/24/20 10:16 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene         | <371    | ug/kg  | 371  | 371  | 1  |          | 06/24/20 10:16 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene         | <371    | ug/kg  | 371  | 371  | 1  |          | 06/24/20 10:16 | 120-82-1   |      |
| 1,1,1-Trichloroethane          | <74.2   | ug/kg  | 74.2 | 74.2 | 1  |          | 06/24/20 10:16 | 71-55-6    |      |
| 1,1,2-Trichloroethane          | <74.2   | ug/kg  | 74.2 | 74.2 | 1  |          | 06/24/20 10:16 | 79-00-5    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

**Sample: MW-131 (2-3)**      **Lab ID: 50260268013**      Collected: 06/15/20 13:55      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|---------|--|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Trichloroethene                | <74.2   | ug/kg  | 74.2   | 74.2 | 1  |          | 06/24/20 10:16 | 79-01-6     |      |
| Trichlorofluoromethane         | <148    | ug/kg  | 148    | 148  | 1  |          | 06/24/20 10:16 | 75-69-4     |      |
| 1,2,3-Trichloropropane         | <148    | ug/kg  | 148    | 148  | 1  |          | 06/24/20 10:16 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene         | <371    | ug/kg  | 371    | 371  | 1  |          | 06/24/20 10:16 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene         | <148    | ug/kg  | 148    | 148  | 1  |          | 06/24/20 10:16 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | <148    | ug/kg  | 148    | 148  | 1  |          | 06/24/20 10:16 | 108-67-8    |      |
| Vinyl chloride                 | <59.4   | ug/kg  | 59.4   | 59.4 | 1  |          | 06/24/20 10:16 | 75-01-4     |      |
| m&p-Xylene                     | <37.1   | ug/kg  | 74.2   | 37.1 | 1  |          | 06/24/20 10:16 | 179601-23-1 |      |
| o-Xylene                       | <37.1   | ug/kg  | 74.2   | 37.1 | 1  |          | 06/24/20 10:16 | 95-47-6     |      |
| <b>Surrogates</b>              |         |  |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)       | 126     | %  | 62-137 |      | 1  |          | 06/24/20 10:16 | 1868-53-7   |      |
| Toluene-d8 (S)                 | 122     | %  | 64-139 |      | 1  |          | 06/24/20 10:16 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)       | 126     | %  | 60-142 |      | 1  |          | 06/24/20 10:16 | 460-00-4    |      |
| <b>Percent Moisture</b>        |         | Analytical Method: SM 2540G<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Percent Moisture               | 22.1    | %  | 0.10   | 0.10 | 1  |          | 06/23/20 14:21 |             |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: Dup. 1**      **Lab ID: 50260268014**      Collected: 06/15/20 12:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL    | DF  | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|--------|-----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                     |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| n-Butanol  | <4770   | ug/kg | 4770   | 4770   | 1   |                | 06/22/20 18:21 | 71-36-3   |      |
| Ethanol  | <2710   | ug/kg | 2710   | 2710   | 1   |                | 06/22/20 18:21 | 64-17-5   |      |
| Methanol   | <4770   | ug/kg | 4770   | 4770   | 1   |                | 06/22/20 18:21 | 67-56-1   |      |
| <b>6010 MET ICP</b>  |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050  |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| Antimony   | <1050   | ug/kg | 1050   | 1050   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7440-36-0 |      |
| Arsenic  | <2100   | ug/kg | 2100   | 2100   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7440-38-2 |      |
| Barium   | 9360    | ug/kg | 1050   | 1050   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7440-39-3 |      |
| Beryllium  | <525    | ug/kg | 525    | 525    | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7440-41-7 |      |
| Boron  | <8400   | ug/kg | 8400   | 8400   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7440-42-8 |      |
| Calcium  | 8810000 | ug/kg | 52500  | 6970   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7440-70-2 |      |
| Chromium   | 5570    | ug/kg | 2100   | 2100   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7440-47-3 |      |
| Copper   | 3040    | ug/kg | 1050   | 1050   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7440-50-8 |      |
| Iron   | 4110000 | ug/kg | 26300  | 7980   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7439-89-6 |      |
| Lead   | <10500  | ug/kg | 10500  | 10500  | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7439-92-1 |      |
| Magnesium  | 1640000 | ug/kg | 26300  | 4200   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7439-95-4 |      |
| Manganese  | 75400   | ug/kg | 1050   | 1050   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7439-96-5 |      |
| Molybdenum   | <1050   | ug/kg | 1050   | 1050   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7439-98-7 |      |
| Nickel   | 4020    | ug/kg | 1050   | 1050   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7440-02-0 |      |
| Potassium  | 172000  | ug/kg | 52500  | 5140   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7440-09-7 |      |
| Sodium   | 27800   | ug/kg | 26300  | 14300  | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7440-23-5 |      |
| Strontium  | 9550    | ug/kg | 5250   | 5250   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7440-24-6 |      |
| Vanadium   | 7890    | ug/kg | 1050   | 1050   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7440-62-2 |      |
| Zinc   | 10300   | ug/kg | 1050   | 1050   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7440-66-6 |      |
| <b>6020 MET ICPMS</b>  |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| Aluminum   | 3230000 | ug/kg | 106000 | 106000 | 100 | 06/24/20 09:22 | 06/30/20 01:45 | 7429-90-5 |      |
| Cadmium  | <213    | ug/kg | 213    | 213    | 1   | 06/24/20 09:22 | 06/25/20 16:30 | 7440-43-9 |      |
| Cobalt   | 1550    | ug/kg | 532    | 532    | 1   | 06/24/20 09:22 | 06/25/20 16:30 | 7440-48-4 |      |
| Selenium   | <213    | ug/kg | 213    | 213    | 1   | 06/24/20 09:22 | 06/25/20 16:30 | 7782-49-2 |      |
| Silver   | <106    | ug/kg | 106    | 106    | 1   | 06/24/20 09:22 | 06/25/20 16:30 | 7440-22-4 |      |
| Thallium   | <532    | ug/kg | 532    | 532    | 1   | 06/24/20 09:22 | 06/25/20 16:30 | 7440-28-0 |      |
| Titanium   | 211000  | ug/kg | 10600  | 2830   | 100 | 06/24/20 09:22 | 06/30/20 01:45 | 7440-32-6 | N2   |
| <b>7471 Mercury</b>  |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 7471      Preparation Method: EPA 7471  |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| Mercury  | <89.4   | ug/kg | 113    | 89.4   | 1   | 06/26/20 02:49 | 06/26/20 07:47 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                       |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 8270      Preparation Method: EPA 3546  |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| Acenaphthene   | <355    | ug/kg | 355    | 355    | 1   | 06/24/20 23:00 | 06/26/20 07:01 | 83-32-9   |      |
| Acenaphthylene   | <355    | ug/kg | 355    | 355    | 1   | 06/24/20 23:00 | 06/26/20 07:01 | 208-96-8  |      |

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: Dup. 1**      **Lab ID: 50260268014**      Collected: 06/15/20 12:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                    |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |      |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |      |      |    |                |                |           |      |
| Anthracene  | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 120-12-7  |      |
| Benzo(a)anthracene  | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 56-55-3   |      |
| Benzo(a)pyrene  | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 207-08-9  |      |
| 4-Bromophenylphenyl ether                                   | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 101-55-3  |      |
| Butylbenzylphthalate  | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 85-68-7   |      |
| Carbazole   | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                     | <301    | ug/kg | 355  | 301  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                                  | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                    | <172    | ug/kg | 355  | 172  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                                | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 108-60-1  |      |
| 2-Chloronaphthalene   | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 91-58-7   |      |
| 2-Chlorophenol  | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                                  | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 7005-72-3 |      |
| Chrysene  | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                       | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 53-70-3   |      |
| Dibenzofuran  | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 132-64-9  |      |
| 2,4-Dichlorophenol  | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 120-83-2  |      |
| Diethylphthalate  | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 84-66-2   |      |
| 2,4-Dimethylphenol  | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 105-67-9  |      |
| Dimethylphthalate   | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 131-11-3  |      |
| Di-n-butylphthalate   | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                                  | <893    | ug/kg | 893  | 893  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 534-52-1  |      |
| 2,4-Dinitrophenol   | <1720   | ug/kg | 1720 | 1720 | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 51-28-5   |      |
| 2,4-Dinitrotoluene  | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 121-14-2  |      |
| 2,6-Dinitrotoluene  | <95.2   | ug/kg | 355  | 95.2 | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 606-20-2  |      |
| Di-n-octylphthalate   | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                       | <1720   | ug/kg | 1720 | 1720 | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate                                  | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 117-81-7  |      |
| Fluoranthene  | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 206-44-0  | L1   |
| Fluorene  | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                    | <103    | ug/kg | 355  | 103  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 87-68-3   |      |
| Hexachlorobenzene   | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                   | <1080   | ug/kg | 1080 | 1080 | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 77-47-4   |      |
| Hexachloroethane  | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                      | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 193-39-5  |      |
| Isophorone  | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 78-59-1   |      |
| 2-Methylnaphthalene   | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                    | <1080   | ug/kg | 1080 | 1080 | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                                | <1080   | ug/kg | 1080 | 1080 | 1  | 06/24/20 23:00 | 06/26/20 07:01 |           |      |
| Naphthalene   | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 91-20-3   |      |
| 2-Nitroaniline  | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 88-74-4   |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: Dup. 1**      **Lab ID: 50260268014**      Collected: 06/15/20 12:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                    |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| 3-Nitroaniline  | <355    | ug/kg | 355    | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 99-09-2   |      |
| 4-Nitroaniline  | <355    | ug/kg | 355    | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 100-01-6  |      |
| Nitrobenzene  | <355    | ug/kg | 355    | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 98-95-3   |      |
| 2-Nitrophenol   | <355    | ug/kg | 355    | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 88-75-5   |      |
| 4-Nitrophenol   | <1720   | ug/kg | 1720   | 1720 | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 100-02-7  |      |
| N-Nitrosodimethylamine                                      | <355    | ug/kg | 355    | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                                  | <355    | ug/kg | 355    | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                      | <355    | ug/kg | 355    | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 86-30-6   |      |
| Pentachlorophenol   | <1580   | ug/kg | 1720   | 1580 | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 87-86-5   |      |
| Phenanthrene  | <355    | ug/kg | 355    | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 85-01-8   |      |
| Phenol  | <355    | ug/kg | 355    | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 108-95-2  |      |
| Pyrene  | <355    | ug/kg | 355    | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                      | <355    | ug/kg | 355    | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                       | <355    | ug/kg | 355    | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                       | <355    | ug/kg | 355    | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 88-06-2   |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)   | 43      | %     | 26-96  |      | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 4165-60-0 |      |
| Phenol-d5 (S)   | 68      | %     | 32-93  |      | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 4165-62-2 |      |
| 2-Fluorophenol (S)  | 72      | %     | 24-95  |      | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                    | 76      | %     | 20-109 |      | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 118-79-6  |      |
| 2-Fluorobiphenyl (S)  | 75      | %     | 36-91  |      | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 93      | %     | 27-117 |      | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                              |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                                 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| Acetone   | <1400   | ug/kg | 1400   | 1400 | 1  |                | 06/24/20 10:49 | 67-64-1   |      |
| Acrylonitrile   | <140    | ug/kg | 140    | 140  | 1  |                | 06/24/20 10:49 | 107-13-1  |      |
| tert-Amylmethyl ether                                       | <349    | ug/kg | 349    | 349  | 1  |                | 06/24/20 10:49 | 994-05-8  | N2   |
| Benzene   | <69.8   | ug/kg | 69.8   | 69.8 | 1  |                | 06/24/20 10:49 | 71-43-2   |      |
| Bromobenzene  | <140    | ug/kg | 140    | 140  | 1  |                | 06/24/20 10:49 | 108-86-1  |      |
| Bromochloromethane  | <34.9   | ug/kg | 69.8   | 34.9 | 1  |                | 06/24/20 10:49 | 74-97-5   |      |
| Bromodichloromethane  | <140    | ug/kg | 140    | 140  | 1  |                | 06/24/20 10:49 | 75-27-4   |      |
| Bromoform   | <140    | ug/kg | 140    | 140  | 1  |                | 06/24/20 10:49 | 75-25-2   |      |
| Bromomethane  | <279    | ug/kg | 279    | 279  | 1  |                | 06/24/20 10:49 | 74-83-9   |      |
| 2-Butanone (MEK)  | <1050   | ug/kg | 1050   | 1050 | 1  |                | 06/24/20 10:49 | 78-93-3   |      |
| tert-Butyl Alcohol  | <3490   | ug/kg | 3490   | 3490 | 1  |                | 06/24/20 10:49 | 75-65-0   |      |
| n-Butylbenzene  | <69.8   | ug/kg | 69.8   | 69.8 | 1  |                | 06/24/20 10:49 | 104-51-8  |      |
| sec-Butylbenzene  | <69.8   | ug/kg | 69.8   | 69.8 | 1  |                | 06/24/20 10:49 | 135-98-8  |      |
| tert-Butylbenzene   | <69.8   | ug/kg | 69.8   | 69.8 | 1  |                | 06/24/20 10:49 | 98-06-6   |      |
| Carbon disulfide  | <349    | ug/kg | 349    | 349  | 1  |                | 06/24/20 10:49 | 75-15-0   |      |
| Carbon tetrachloride  | <69.8   | ug/kg | 69.8   | 69.8 | 1  |                | 06/24/20 10:49 | 56-23-5   |      |
| Chlorobenzene   | <69.8   | ug/kg | 69.8   | 69.8 | 1  |                | 06/24/20 10:49 | 108-90-7  |      |
| Chloroethane  | <349    | ug/kg | 349    | 349  | 1  |                | 06/24/20 10:49 | 75-00-3   |      |
| Chloroform  | <69.8   | ug/kg | 69.8   | 69.8 | 1  |                | 06/24/20 10:49 | 67-66-3   |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: Dup. 1**      **Lab ID: 50260268014**      Collected: 06/15/20 12:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Chloromethane                  | <349    | ug/kg  | 349  | 349  | 1  |          | 06/24/20 10:49 | 74-87-3    |      |
| Cyclohexane                    | <698    | ug/kg  | 698  | 698  | 1  |          | 06/24/20 10:49 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <69.8   | ug/kg  | 69.8 | 69.8 | 1  |          | 06/24/20 10:49 | 96-12-8    |      |
| Dibromochloromethane           | <140    | ug/kg  | 140  | 140  | 1  |          | 06/24/20 10:49 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <69.8   | ug/kg  | 69.8 | 69.8 | 1  |          | 06/24/20 10:49 | 106-93-4   |      |
| Dibromomethane                 | <349    | ug/kg  | 349  | 349  | 1  |          | 06/24/20 10:49 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <140    | ug/kg  | 140  | 140  | 1  |          | 06/24/20 10:49 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <140    | ug/kg  | 140  | 140  | 1  |          | 06/24/20 10:49 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <140    | ug/kg  | 140  | 140  | 1  |          | 06/24/20 10:49 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <140    | ug/kg  | 1400 | 140  | 1  |          | 06/24/20 10:49 | 110-57-6   |      |
| Dichlorodifluoromethane        | <349    | ug/kg  | 349  | 349  | 1  |          | 06/24/20 10:49 | 75-71-8    |      |
| 1,1-Dichloroethane             | <69.8   | ug/kg  | 69.8 | 69.8 | 1  |          | 06/24/20 10:49 | 75-34-3    |      |
| 1,2-Dichloroethane             | <69.8   | ug/kg  | 69.8 | 69.8 | 1  |          | 06/24/20 10:49 | 107-06-2   |      |
| 1,1-Dichloroethene             | <69.8   | ug/kg  | 69.8 | 69.8 | 1  |          | 06/24/20 10:49 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <69.8   | ug/kg  | 69.8 | 69.8 | 1  |          | 06/24/20 10:49 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <69.8   | ug/kg  | 69.8 | 69.8 | 1  |          | 06/24/20 10:49 | 156-60-5   |      |
| 1,2-Dichloropropane            | <69.8   | ug/kg  | 69.8 | 69.8 | 1  |          | 06/24/20 10:49 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <140    | ug/kg  | 140  | 140  | 1  |          | 06/24/20 10:49 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <140    | ug/kg  | 140  | 140  | 1  |          | 06/24/20 10:49 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <279    | ug/kg  | 279  | 279  | 1  |          | 06/24/20 10:49 | 60-29-7    |      |
| Diisopropyl ether              | <349    | ug/kg  | 349  | 349  | 1  |          | 06/24/20 10:49 | 108-20-3   | N2   |
| Ethylbenzene                   | <69.8   | ug/kg  | 69.8 | 69.8 | 1  |          | 06/24/20 10:49 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <349    | ug/kg  | 349  | 349  | 1  |          | 06/24/20 10:49 | 637-92-3   | N2   |
| Hexachloroethane               | <419    | ug/kg  | 419  | 419  | 1  |          | 06/24/20 10:49 | 67-72-1    | N2   |
| 2-Hexanone                     | <3490   | ug/kg  | 3490 | 3490 | 1  |          | 06/24/20 10:49 | 591-78-6   |      |
| Iodomethane                    | <140    | ug/kg  | 1400 | 140  | 1  |          | 06/24/20 10:49 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <349    | ug/kg  | 349  | 349  | 1  |          | 06/24/20 10:49 | 98-82-8    |      |
| p-Isopropyltoluene             | <34.9   | ug/kg  | 69.8 | 34.9 | 1  |          | 06/24/20 10:49 | 99-87-6    |      |
| Methylene Chloride             | <140    | ug/kg  | 140  | 140  | 1  |          | 06/24/20 10:49 | 75-09-2    |      |
| 2-Methylnaphthalene            | <460    | ug/kg  | 460  | 460  | 1  |          | 06/24/20 10:49 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)    | <3490   | ug/kg  | 3490 | 3490 | 1  |          | 06/24/20 10:49 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <349    | ug/kg  | 349  | 349  | 1  |          | 06/24/20 10:49 | 1634-04-4  |      |
| Naphthalene                    | <460    | ug/kg  | 460  | 460  | 1  |          | 06/24/20 10:49 | 91-20-3    |      |
| n-Propylbenzene                | <140    | ug/kg  | 140  | 140  | 1  |          | 06/24/20 10:49 | 103-65-1   |      |
| Styrene                        | <69.8   | ug/kg  | 69.8 | 69.8 | 1  |          | 06/24/20 10:49 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <140    | ug/kg  | 140  | 140  | 1  |          | 06/24/20 10:49 | 630-20-6   |      |
| 1,1,1,2,2-Tetrachloroethane    | <69.8   | ug/kg  | 69.8 | 69.8 | 1  |          | 06/24/20 10:49 | 79-34-5    |      |
| Tetrachloroethene              | <69.8   | ug/kg  | 69.8 | 69.8 | 1  |          | 06/24/20 10:49 | 127-18-4   |      |
| Tetrahydrofuran                | <1400   | ug/kg  | 1400 | 1400 | 1  |          | 06/24/20 10:49 | 109-99-9   | N2   |
| Toluene                        | <140    | ug/kg  | 140  | 140  | 1  |          | 06/24/20 10:49 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene         | <349    | ug/kg  | 349  | 349  | 1  |          | 06/24/20 10:49 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene         | <349    | ug/kg  | 349  | 349  | 1  |          | 06/24/20 10:49 | 120-82-1   |      |
| 1,1,1-Trichloroethane          | <69.8   | ug/kg  | 69.8 | 69.8 | 1  |          | 06/24/20 10:49 | 71-55-6    |      |
| 1,1,2-Trichloroethane          | <69.8   | ug/kg  | 69.8 | 69.8 | 1  |          | 06/24/20 10:49 | 79-00-5    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: Dup. 1**      **Lab ID: 50260268014**      Collected: 06/15/20 12:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|---------|--|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Trichloroethene                | <69.8   | ug/kg  | 69.8   | 69.8 | 1  |          | 06/24/20 10:49 | 79-01-6     |      |
| Trichlorofluoromethane         | <140    | ug/kg  | 140    | 140  | 1  |          | 06/24/20 10:49 | 75-69-4     |      |
| 1,2,3-Trichloropropane         | <140    | ug/kg  | 140    | 140  | 1  |          | 06/24/20 10:49 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene         | <349    | ug/kg  | 349    | 349  | 1  |          | 06/24/20 10:49 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene         | <140    | ug/kg  | 140    | 140  | 1  |          | 06/24/20 10:49 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | <140    | ug/kg  | 140    | 140  | 1  |          | 06/24/20 10:49 | 108-67-8    |      |
| Vinyl chloride                 | <55.8   | ug/kg  | 55.8   | 55.8 | 1  |          | 06/24/20 10:49 | 75-01-4     |      |
| m&p-Xylene                     | <34.9   | ug/kg  | 69.8   | 34.9 | 1  |          | 06/24/20 10:49 | 179601-23-1 |      |
| o-Xylene                       | <34.9   | ug/kg  | 69.8   | 34.9 | 1  |          | 06/24/20 10:49 | 95-47-6     |      |
| <b>Surrogates</b>              |         |  |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)       | 104     | %  | 62-137 |      | 1  |          | 06/24/20 10:49 | 1868-53-7   |      |
| Toluene-d8 (S)                 | 101     | %  | 64-139 |      | 1  |          | 06/24/20 10:49 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)       | 105     | %  | 60-142 |      | 1  |          | 06/24/20 10:49 | 460-00-4    |      |
| <b>Percent Moisture</b>        |         | Analytical Method: SM 2540G<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Percent Moisture               | 7.7     | %  | 0.10   | 0.10 | 1  |          | 06/23/20 14:21 |             |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: Dup. 2**      **Lab ID: 50260268015**      Collected: 06/16/20 12:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results  | Units | PQL    | MDL    | DF  | Prepared       | Analyzed       | CAS No.   | Qual |
|--|----------|-------|--------|--------|-----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                |          |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                     |          |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |        |     |                |                |           |      |
| n-Butanol  | <4940    | ug/kg | 4940   | 4940   | 1   |                | 06/22/20 18:31 | 71-36-3   |      |
| Ethanol  | <2810    | ug/kg | 2810   | 2810   | 1   |                | 06/22/20 18:31 | 64-17-5   |      |
| Methanol   | <4940    | ug/kg | 4940   | 4940   | 1   |                | 06/22/20 18:31 | 67-56-1   |      |
| <b>6010 MET ICP</b>  |          |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050  |          |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |        |     |                |                |           |      |
| Antimony   | <1060    | ug/kg | 1060   | 1060   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7440-36-0 |      |
| Arsenic  | <2120    | ug/kg | 2120   | 2120   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7440-38-2 |      |
| Barium   | 14900    | ug/kg | 1060   | 1060   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7440-39-3 |      |
| Beryllium  | <529     | ug/kg | 529    | 529    | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7440-41-7 |      |
| Boron  | <8470    | ug/kg | 8470   | 8470   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7440-42-8 |      |
| Calcium  | 10200000 | ug/kg | 52900  | 7020   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7440-70-2 |      |
| Chromium   | 6530     | ug/kg | 2120   | 2120   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7440-47-3 |      |
| Copper   | 5830     | ug/kg | 1060   | 1060   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7440-50-8 |      |
| Iron   | 4680000  | ug/kg | 26500  | 8050   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7439-89-6 |      |
| Lead   | 18400    | ug/kg | 10600  | 10600  | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7439-92-1 |      |
| Magnesium  | 2120000  | ug/kg | 26500  | 4230   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7439-95-4 |      |
| Manganese  | 64900    | ug/kg | 1060   | 1060   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7439-96-5 |      |
| Molybdenum   | <1060    | ug/kg | 1060   | 1060   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7439-98-7 |      |
| Nickel   | 4420     | ug/kg | 1060   | 1060   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7440-02-0 |      |
| Potassium  | 285000   | ug/kg | 52900  | 5180   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7440-09-7 |      |
| Sodium   | 46000    | ug/kg | 26500  | 14400  | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7440-23-5 |      |
| Strontium  | 15800    | ug/kg | 5290   | 5290   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7440-24-6 |      |
| Vanadium   | 10300    | ug/kg | 1060   | 1060   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7440-62-2 |      |
| Zinc   | 21400    | ug/kg | 1060   | 1060   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7440-66-6 |      |
| <b>6020 MET ICPMS</b>  |          |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B |          |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |        |     |                |                |           |      |
| Aluminum   | 4930000  | ug/kg | 108000 | 108000 | 100 | 06/24/20 09:22 | 06/30/20 01:50 | 7429-90-5 |      |
| Cadmium  | <216     | ug/kg | 216    | 216    | 1   | 06/24/20 09:22 | 06/25/20 16:39 | 7440-43-9 |      |
| Cobalt   | 1960     | ug/kg | 540    | 540    | 1   | 06/24/20 09:22 | 06/25/20 16:39 | 7440-48-4 |      |
| Selenium   | 239      | ug/kg | 216    | 216    | 1   | 06/24/20 09:22 | 06/25/20 16:39 | 7782-49-2 |      |
| Silver   | <108     | ug/kg | 108    | 108    | 1   | 06/24/20 09:22 | 06/25/20 16:39 | 7440-22-4 |      |
| Thallium   | <540     | ug/kg | 540    | 540    | 1   | 06/24/20 09:22 | 06/25/20 16:39 | 7440-28-0 |      |
| Titanium   | 212000   | ug/kg | 10800  | 2870   | 100 | 06/24/20 09:22 | 06/30/20 01:50 | 7440-32-6 | N2   |
| <b>7471 Mercury</b>  |          |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 7471      Preparation Method: EPA 7471  |          |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |        |     |                |                |           |      |
| Mercury  | <93.3    | ug/kg | 118    | 93.3   | 1   | 06/26/20 02:49 | 06/26/20 07:57 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                       |          |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 8270      Preparation Method: EPA 3546  |          |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |        |     |                |                |           |      |
| Acenaphthene   | <370     | ug/kg | 370    | 370    | 1   | 06/24/20 23:00 | 06/26/20 07:18 | 83-32-9   |      |
| Acenaphthylene   | <370     | ug/kg | 370    | 370    | 1   | 06/24/20 23:00 | 06/26/20 07:18 | 208-96-8  |      |

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

**Sample: Dup. 2**      **Lab ID: 50260268015**      Collected: 06/16/20 12:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                 |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |      |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |      |      |    |                |                |           |      |
| Anthracene   | 407     | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 120-12-7  |      |
| Benzo(a)anthracene                                       | 1700    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 56-55-3   |      |
| Benzo(a)pyrene   | 1600    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 50-32-8   |      |
| Benzo(b)fluoranthene                                     | 2210    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 205-99-2  |      |
| Benzo(g,h,i)perylene                                     | 894     | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 191-24-2  |      |
| Benzo(k)fluoranthene                                     | 1020    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 207-08-9  |      |
| 4-Bromophenylphenyl ether                                | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 101-55-3  |      |
| Butylbenzylphthalate                                     | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 85-68-7   |      |
| Carbazole  | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                  | <314    | ug/kg | 370  | 314  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                               | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                 | <180    | ug/kg | 370  | 180  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                             | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 108-60-1  |      |
| 2-Chloronaphthalene                                      | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 91-58-7   |      |
| 2-Chlorophenol   | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                               | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 7005-72-3 |      |
| Chrysene   | 1750    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                    | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 53-70-3   |      |
| Dibenzofuran   | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 132-64-9  |      |
| 2,4-Dichlorophenol                                       | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 120-83-2  |      |
| Diethylphthalate   | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 84-66-2   |      |
| 2,4-Dimethylphenol                                       | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 105-67-9  |      |
| Dimethylphthalate  | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 131-11-3  |      |
| Di-n-butylphthalate                                      | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                               | <931    | ug/kg | 931  | 931  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 534-52-1  |      |
| 2,4-Dinitrophenol  | <1800   | ug/kg | 1800 | 1800 | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 51-28-5   |      |
| 2,4-Dinitrotoluene                                       | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 121-14-2  |      |
| 2,6-Dinitrotoluene                                       | <99.3   | ug/kg | 370  | 99.3 | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 606-20-2  |      |
| Di-n-octylphthalate                                      | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                    | <1800   | ug/kg | 1800 | 1800 | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate                               | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 117-81-7  |      |
| Fluoranthene   | 3640    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 206-44-0  | L1   |
| Fluorene   | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                 | <108    | ug/kg | 370  | 108  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 87-68-3   |      |
| Hexachlorobenzene  | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                | <1120   | ug/kg | 1120 | 1120 | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 77-47-4   |      |
| Hexachloroethane   | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                   | 808     | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 193-39-5  |      |
| Isophorone   | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 78-59-1   |      |
| 2-Methylnaphthalene                                      | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                 | <1120   | ug/kg | 1120 | 1120 | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                             | <1120   | ug/kg | 1120 | 1120 | 1  | 06/24/20 23:00 | 06/26/20 07:18 |           |      |
| Naphthalene  | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 91-20-3   |      |
| 2-Nitroaniline   | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 88-74-4   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: Dup. 2**      **Lab ID: 50260268015**      Collected: 06/16/20 12:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                    |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| 3-Nitroaniline  | <370    | ug/kg | 370    | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 99-09-2   |      |
| 4-Nitroaniline  | <370    | ug/kg | 370    | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 100-01-6  |      |
| Nitrobenzene  | <370    | ug/kg | 370    | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 98-95-3   |      |
| 2-Nitrophenol   | <370    | ug/kg | 370    | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 88-75-5   |      |
| 4-Nitrophenol   | <1800   | ug/kg | 1800   | 1800 | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 100-02-7  |      |
| N-Nitrosodimethylamine                                      | <370    | ug/kg | 370    | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                                  | <370    | ug/kg | 370    | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                      | <370    | ug/kg | 370    | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 86-30-6   |      |
| Pentachlorophenol   | <1650   | ug/kg | 1800   | 1650 | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 87-86-5   |      |
| Phenanthrene  | 1890    | ug/kg | 370    | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 85-01-8   |      |
| Phenol  | <370    | ug/kg | 370    | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 108-95-2  |      |
| Pyrene  | 2880    | ug/kg | 370    | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                      | <370    | ug/kg | 370    | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                       | <370    | ug/kg | 370    | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                       | <370    | ug/kg | 370    | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 88-06-2   |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)   | 41      | %     | 26-96  |      | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 4165-60-0 |      |
| Phenol-d5 (S)   | 78      | %     | 32-93  |      | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 4165-62-2 |      |
| 2-Fluorophenol (S)  | 80      | %     | 24-95  |      | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                    | 62      | %     | 20-109 |      | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 118-79-6  |      |
| 2-Fluorobiphenyl (S)  | 72      | %     | 36-91  |      | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 85      | %     | 27-117 |      | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                              |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                                 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| Acetone   | <1180   | ug/kg | 1180   | 1180 | 1  |                | 06/24/20 11:22 | 67-64-1   |      |
| Acrylonitrile   | <118    | ug/kg | 118    | 118  | 1  |                | 06/24/20 11:22 | 107-13-1  |      |
| tert-Amylmethyl ether                                       | <295    | ug/kg | 295    | 295  | 1  |                | 06/24/20 11:22 | 994-05-8  | N2   |
| Benzene   | <59.0   | ug/kg | 59.0   | 59.0 | 1  |                | 06/24/20 11:22 | 71-43-2   |      |
| Bromobenzene  | <118    | ug/kg | 118    | 118  | 1  |                | 06/24/20 11:22 | 108-86-1  |      |
| Bromochloromethane  | <29.5   | ug/kg | 59.0   | 29.5 | 1  |                | 06/24/20 11:22 | 74-97-5   |      |
| Bromodichloromethane  | <118    | ug/kg | 118    | 118  | 1  |                | 06/24/20 11:22 | 75-27-4   |      |
| Bromoform   | <118    | ug/kg | 118    | 118  | 1  |                | 06/24/20 11:22 | 75-25-2   |      |
| Bromomethane  | <236    | ug/kg | 236    | 236  | 1  |                | 06/24/20 11:22 | 74-83-9   |      |
| 2-Butanone (MEK)  | <884    | ug/kg | 884    | 884  | 1  |                | 06/24/20 11:22 | 78-93-3   |      |
| tert-Butyl Alcohol  | <2950   | ug/kg | 2950   | 2950 | 1  |                | 06/24/20 11:22 | 75-65-0   |      |
| n-Butylbenzene  | <59.0   | ug/kg | 59.0   | 59.0 | 1  |                | 06/24/20 11:22 | 104-51-8  |      |
| sec-Butylbenzene  | <59.0   | ug/kg | 59.0   | 59.0 | 1  |                | 06/24/20 11:22 | 135-98-8  |      |
| tert-Butylbenzene   | <59.0   | ug/kg | 59.0   | 59.0 | 1  |                | 06/24/20 11:22 | 98-06-6   |      |
| Carbon disulfide  | <295    | ug/kg | 295    | 295  | 1  |                | 06/24/20 11:22 | 75-15-0   |      |
| Carbon tetrachloride  | <59.0   | ug/kg | 59.0   | 59.0 | 1  |                | 06/24/20 11:22 | 56-23-5   |      |
| Chlorobenzene   | <59.0   | ug/kg | 59.0   | 59.0 | 1  |                | 06/24/20 11:22 | 108-90-7  |      |
| Chloroethane  | <295    | ug/kg | 295    | 295  | 1  |                | 06/24/20 11:22 | 75-00-3   |      |
| Chloroform  | <59.0   | ug/kg | 59.0   | 59.0 | 1  |                | 06/24/20 11:22 | 67-66-3   |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

**Sample: Dup. 2**      **Lab ID: 50260268015**      Collected: 06/16/20 12:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Chloromethane                  | <295    | ug/kg  | 295  | 295  | 1  |          | 06/24/20 11:22 | 74-87-3    |      |
| Cyclohexane                    | <590    | ug/kg  | 590  | 590  | 1  |          | 06/24/20 11:22 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <59.0   | ug/kg  | 59.0 | 59.0 | 1  |          | 06/24/20 11:22 | 96-12-8    |      |
| Dibromochloromethane           | <118    | ug/kg  | 118  | 118  | 1  |          | 06/24/20 11:22 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <59.0   | ug/kg  | 59.0 | 59.0 | 1  |          | 06/24/20 11:22 | 106-93-4   |      |
| Dibromomethane                 | <295    | ug/kg  | 295  | 295  | 1  |          | 06/24/20 11:22 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <118    | ug/kg  | 118  | 118  | 1  |          | 06/24/20 11:22 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <118    | ug/kg  | 118  | 118  | 1  |          | 06/24/20 11:22 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <118    | ug/kg  | 118  | 118  | 1  |          | 06/24/20 11:22 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <118    | ug/kg  | 1180 | 118  | 1  |          | 06/24/20 11:22 | 110-57-6   |      |
| Dichlorodifluoromethane        | <295    | ug/kg  | 295  | 295  | 1  |          | 06/24/20 11:22 | 75-71-8    |      |
| 1,1-Dichloroethane             | <59.0   | ug/kg  | 59.0 | 59.0 | 1  |          | 06/24/20 11:22 | 75-34-3    |      |
| 1,2-Dichloroethane             | <59.0   | ug/kg  | 59.0 | 59.0 | 1  |          | 06/24/20 11:22 | 107-06-2   |      |
| 1,1-Dichloroethene             | <59.0   | ug/kg  | 59.0 | 59.0 | 1  |          | 06/24/20 11:22 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <59.0   | ug/kg  | 59.0 | 59.0 | 1  |          | 06/24/20 11:22 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <59.0   | ug/kg  | 59.0 | 59.0 | 1  |          | 06/24/20 11:22 | 156-60-5   |      |
| 1,2-Dichloropropane            | <59.0   | ug/kg  | 59.0 | 59.0 | 1  |          | 06/24/20 11:22 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <118    | ug/kg  | 118  | 118  | 1  |          | 06/24/20 11:22 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <118    | ug/kg  | 118  | 118  | 1  |          | 06/24/20 11:22 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <236    | ug/kg  | 236  | 236  | 1  |          | 06/24/20 11:22 | 60-29-7    |      |
| Diisopropyl ether              | <295    | ug/kg  | 295  | 295  | 1  |          | 06/24/20 11:22 | 108-20-3   | N2   |
| Ethylbenzene                   | <59.0   | ug/kg  | 59.0 | 59.0 | 1  |          | 06/24/20 11:22 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <295    | ug/kg  | 295  | 295  | 1  |          | 06/24/20 11:22 | 637-92-3   | N2   |
| Hexachloroethane               | <354    | ug/kg  | 354  | 354  | 1  |          | 06/24/20 11:22 | 67-72-1    | N2   |
| 2-Hexanone                     | <2950   | ug/kg  | 2950 | 2950 | 1  |          | 06/24/20 11:22 | 591-78-6   |      |
| Iodomethane                    | <118    | ug/kg  | 1180 | 118  | 1  |          | 06/24/20 11:22 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <295    | ug/kg  | 295  | 295  | 1  |          | 06/24/20 11:22 | 98-82-8    |      |
| p-Isopropyltoluene             | <29.5   | ug/kg  | 59.0 | 29.5 | 1  |          | 06/24/20 11:22 | 99-87-6    |      |
| Methylene Chloride             | <118    | ug/kg  | 118  | 118  | 1  |          | 06/24/20 11:22 | 75-09-2    |      |
| 2-Methylnaphthalene            | <389    | ug/kg  | 389  | 389  | 1  |          | 06/24/20 11:22 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)    | <2950   | ug/kg  | 2950 | 2950 | 1  |          | 06/24/20 11:22 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <295    | ug/kg  | 295  | 295  | 1  |          | 06/24/20 11:22 | 1634-04-4  |      |
| Naphthalene                    | <389    | ug/kg  | 389  | 389  | 1  |          | 06/24/20 11:22 | 91-20-3    |      |
| n-Propylbenzene                | <118    | ug/kg  | 118  | 118  | 1  |          | 06/24/20 11:22 | 103-65-1   |      |
| Styrene                        | <59.0   | ug/kg  | 59.0 | 59.0 | 1  |          | 06/24/20 11:22 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <118    | ug/kg  | 118  | 118  | 1  |          | 06/24/20 11:22 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane      | <59.0   | ug/kg  | 59.0 | 59.0 | 1  |          | 06/24/20 11:22 | 79-34-5    |      |
| Tetrachloroethene              | <59.0   | ug/kg  | 59.0 | 59.0 | 1  |          | 06/24/20 11:22 | 127-18-4   |      |
| Tetrahydrofuran                | <1180   | ug/kg  | 1180 | 1180 | 1  |          | 06/24/20 11:22 | 109-99-9   | N2   |
| Toluene                        | <118    | ug/kg  | 118  | 118  | 1  |          | 06/24/20 11:22 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene         | <295    | ug/kg  | 295  | 295  | 1  |          | 06/24/20 11:22 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene         | <295    | ug/kg  | 295  | 295  | 1  |          | 06/24/20 11:22 | 120-82-1   |      |
| 1,1,1-Trichloroethane          | <59.0   | ug/kg  | 59.0 | 59.0 | 1  |          | 06/24/20 11:22 | 71-55-6    |      |
| 1,1,2-Trichloroethane          | <59.0   | ug/kg  | 59.0 | 59.0 | 1  |          | 06/24/20 11:22 | 79-00-5    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: Dup. 2**      **Lab ID: 50260268015**      Collected: 06/16/20 12:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results     | Units  | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|-------------|--|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b> |             | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Trichloroethene                | <59.0       | ug/kg  | 59.0   | 59.0 | 1  |          | 06/24/20 11:22 | 79-01-6     |      |
| Trichlorofluoromethane         | <118        | ug/kg  | 118    | 118  | 1  |          | 06/24/20 11:22 | 75-69-4     |      |
| 1,2,3-Trichloropropane         | <118        | ug/kg  | 118    | 118  | 1  |          | 06/24/20 11:22 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene         | <295        | ug/kg  | 295    | 295  | 1  |          | 06/24/20 11:22 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene         | <118        | ug/kg  | 118    | 118  | 1  |          | 06/24/20 11:22 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | <118        | ug/kg  | 118    | 118  | 1  |          | 06/24/20 11:22 | 108-67-8    |      |
| Vinyl chloride                 | <47.2       | ug/kg  | 47.2   | 47.2 | 1  |          | 06/24/20 11:22 | 75-01-4     |      |
| m&p-Xylene                     | <29.5       | ug/kg  | 59.0   | 29.5 | 1  |          | 06/24/20 11:22 | 179601-23-1 |      |
| o-Xylene                       | <29.5       | ug/kg  | 59.0   | 29.5 | 1  |          | 06/24/20 11:22 | 95-47-6     |      |
| <b>Surrogates</b>              |             |  |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)       | 114         | %  | 62-137 |      | 1  |          | 06/24/20 11:22 | 1868-53-7   |      |
| Toluene-d8 (S)                 | 110         | %  | 64-139 |      | 1  |          | 06/24/20 11:22 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)       | 115         | %  | 60-142 |      | 1  |          | 06/24/20 11:22 | 460-00-4    |      |
| <b>Percent Moisture</b>        |             | Analytical Method: SM 2540G<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Percent Moisture               | <b>10.9</b> | %  | 0.10   | 0.10 | 1  |          | 06/23/20 14:21 |             |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

**Sample: Trip Blank**      **Lab ID: 50260268016**      Collected: 06/15/20 14:29      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "wet-weight" basis*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Acetone                        | <1000   | ug/kg  | 1000 | 1000 | 1  |          | 06/24/20 11:55 | 67-64-1    |      |
| Acrylonitrile                  | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 11:55 | 107-13-1   |      |
| tert-Amyl methyl ether         | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 11:55 | 994-05-8   | N2   |
| Benzene                        | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 71-43-2    |      |
| Bromobenzene                   | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 11:55 | 108-86-1   |      |
| Bromochloromethane             | <25.0   | ug/kg  | 50.0 | 25.0 | 1  |          | 06/24/20 11:55 | 74-97-5    |      |
| Bromodichloromethane           | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 11:55 | 75-27-4    |      |
| Bromoform                      | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 11:55 | 75-25-2    |      |
| Bromomethane                   | <200    | ug/kg  | 200  | 200  | 1  |          | 06/24/20 11:55 | 74-83-9    |      |
| 2-Butanone (MEK)               | <750    | ug/kg  | 750  | 750  | 1  |          | 06/24/20 11:55 | 78-93-3    |      |
| tert-Butyl Alcohol             | <2500   | ug/kg  | 2500 | 2500 | 1  |          | 06/24/20 11:55 | 75-65-0    |      |
| n-Butylbenzene                 | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 104-51-8   |      |
| sec-Butylbenzene               | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 135-98-8   |      |
| tert-Butylbenzene              | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 98-06-6    |      |
| Carbon disulfide               | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 11:55 | 75-15-0    |      |
| Carbon tetrachloride           | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 56-23-5    |      |
| Chlorobenzene                  | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 108-90-7   |      |
| Chloroethane                   | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 11:55 | 75-00-3    |      |
| Chloroform                     | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 67-66-3    |      |
| Chloromethane                  | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 11:55 | 74-87-3    |      |
| Cyclohexane                    | <500    | ug/kg  | 500  | 500  | 1  |          | 06/24/20 11:55 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 96-12-8    |      |
| Dibromochloromethane           | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 11:55 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 106-93-4   |      |
| Dibromomethane                 | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 11:55 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 11:55 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 11:55 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 11:55 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <100    | ug/kg  | 1000 | 100  | 1  |          | 06/24/20 11:55 | 110-57-6   |      |
| Dichlorodifluoromethane        | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 11:55 | 75-71-8    |      |
| 1,1-Dichloroethane             | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 75-34-3    |      |
| 1,2-Dichloroethane             | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 107-06-2   |      |
| 1,1-Dichloroethene             | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 156-60-5   |      |
| 1,2-Dichloropropane            | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 11:55 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 11:55 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <200    | ug/kg  | 200  | 200  | 1  |          | 06/24/20 11:55 | 60-29-7    |      |
| Diisopropyl ether              | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 11:55 | 108-20-3   | N2   |
| Ethylbenzene                   | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 11:55 | 637-92-3   | N2   |
| Hexachloroethane               | <300    | ug/kg  | 300  | 300  | 1  |          | 06/24/20 11:55 | 67-72-1    | N2   |
| 2-Hexanone                     | <2500   | ug/kg  | 2500 | 2500 | 1  |          | 06/24/20 11:55 | 591-78-6   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: Trip Blank**      **Lab ID: 50260268016**      Collected: 06/15/20 14:29      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "wet-weight" basis*

| Parameters                     | Results | Units  | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|---------|--|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Iodomethane                    | <100    | ug/kg  | 1000   | 100  | 1  |          | 06/24/20 11:55 | 74-88-4     |      |
| Isopropylbenzene (Cumene)      | <250    | ug/kg  | 250    | 250  | 1  |          | 06/24/20 11:55 | 98-82-8     |      |
| p-Isopropyltoluene             | <25.0   | ug/kg  | 50.0   | 25.0 | 1  |          | 06/24/20 11:55 | 99-87-6     |      |
| Methylene Chloride             | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 11:55 | 75-09-2     |      |
| 2-Methylnaphthalene            | <330    | ug/kg  | 330    | 330  | 1  |          | 06/24/20 11:55 | 91-57-6     |      |
| 4-Methyl-2-pentanone (MIBK)    | <2500   | ug/kg  | 2500   | 2500 | 1  |          | 06/24/20 11:55 | 108-10-1    |      |
| Methyl-tert-butyl ether        | <250    | ug/kg  | 250    | 250  | 1  |          | 06/24/20 11:55 | 1634-04-4   |      |
| Naphthalene                    | <330    | ug/kg  | 330    | 330  | 1  |          | 06/24/20 11:55 | 91-20-3     |      |
| n-Propylbenzene                | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 11:55 | 103-65-1    |      |
| Styrene                        | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/24/20 11:55 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane      | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 11:55 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane      | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/24/20 11:55 | 79-34-5     |      |
| Tetrachloroethene              | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/24/20 11:55 | 127-18-4    |      |
| Tetrahydrofuran                | <1000   | ug/kg  | 1000   | 1000 | 1  |          | 06/24/20 11:55 | 109-99-9    | N2   |
| Toluene                        | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 11:55 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene         | <250    | ug/kg  | 250    | 250  | 1  |          | 06/24/20 11:55 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene         | <250    | ug/kg  | 250    | 250  | 1  |          | 06/24/20 11:55 | 120-82-1    |      |
| 1,1,1-Trichloroethane          | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/24/20 11:55 | 71-55-6     |      |
| 1,1,2-Trichloroethane          | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/24/20 11:55 | 79-00-5     |      |
| Trichloroethene                | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/24/20 11:55 | 79-01-6     |      |
| Trichlorofluoromethane         | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 11:55 | 75-69-4     |      |
| 1,2,3-Trichloropropane         | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 11:55 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene         | <250    | ug/kg  | 250    | 250  | 1  |          | 06/24/20 11:55 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene         | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 11:55 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 11:55 | 108-67-8    |      |
| Vinyl chloride                 | <40.0   | ug/kg  | 40.0   | 40.0 | 1  |          | 06/24/20 11:55 | 75-01-4     |      |
| m&p-Xylene                     | <25.0   | ug/kg  | 50.0   | 25.0 | 1  |          | 06/24/20 11:55 | 179601-23-1 |      |
| o-Xylene                       | <25.0   | ug/kg  | 50.0   | 25.0 | 1  |          | 06/24/20 11:55 | 95-47-6     |      |
| <b>Surrogates</b>              |         |  |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)       | 103     | %  | 62-137 |      | 1  |          | 06/24/20 11:55 | 1868-53-7   |      |
| Toluene-d8 (S)                 | 98      | %  | 64-139 |      | 1  |          | 06/24/20 11:55 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)       | 101     | %  | 60-142 |      | 1  |          | 06/24/20 11:55 | 460-00-4    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: Trip Blank**      **Lab ID: 50260268017**      Collected: 06/15/20 14:30      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "wet-weight" basis*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Acetone                        | <1000   | ug/kg  | 1000 | 1000 | 1  |          | 06/24/20 12:29 | 67-64-1    |      |
| Acrylonitrile                  | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 12:29 | 107-13-1   |      |
| tert-Amyl methyl ether         | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 12:29 | 994-05-8   | N2   |
| Benzene                        | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 71-43-2    |      |
| Bromobenzene                   | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 12:29 | 108-86-1   |      |
| Bromochloromethane             | <25.0   | ug/kg  | 50.0 | 25.0 | 1  |          | 06/24/20 12:29 | 74-97-5    |      |
| Bromodichloromethane           | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 12:29 | 75-27-4    |      |
| Bromoform                      | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 12:29 | 75-25-2    |      |
| Bromomethane                   | <200    | ug/kg  | 200  | 200  | 1  |          | 06/24/20 12:29 | 74-83-9    |      |
| 2-Butanone (MEK)               | <750    | ug/kg  | 750  | 750  | 1  |          | 06/24/20 12:29 | 78-93-3    |      |
| tert-Butyl Alcohol             | <2500   | ug/kg  | 2500 | 2500 | 1  |          | 06/24/20 12:29 | 75-65-0    |      |
| n-Butylbenzene                 | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 104-51-8   |      |
| sec-Butylbenzene               | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 135-98-8   |      |
| tert-Butylbenzene              | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 98-06-6    |      |
| Carbon disulfide               | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 12:29 | 75-15-0    |      |
| Carbon tetrachloride           | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 56-23-5    |      |
| Chlorobenzene                  | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 108-90-7   |      |
| Chloroethane                   | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 12:29 | 75-00-3    |      |
| Chloroform                     | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 67-66-3    |      |
| Chloromethane                  | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 12:29 | 74-87-3    |      |
| Cyclohexane                    | <500    | ug/kg  | 500  | 500  | 1  |          | 06/24/20 12:29 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 96-12-8    |      |
| Dibromochloromethane           | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 12:29 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 106-93-4   |      |
| Dibromomethane                 | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 12:29 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 12:29 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 12:29 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 12:29 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <100    | ug/kg  | 1000 | 100  | 1  |          | 06/24/20 12:29 | 110-57-6   |      |
| Dichlorodifluoromethane        | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 12:29 | 75-71-8    |      |
| 1,1-Dichloroethane             | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 75-34-3    |      |
| 1,2-Dichloroethane             | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 107-06-2   |      |
| 1,1-Dichloroethene             | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 156-60-5   |      |
| 1,2-Dichloropropane            | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 12:29 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 12:29 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <200    | ug/kg  | 200  | 200  | 1  |          | 06/24/20 12:29 | 60-29-7    |      |
| Diisopropyl ether              | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 12:29 | 108-20-3   | N2   |
| Ethylbenzene                   | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 12:29 | 637-92-3   | N2   |
| Hexachloroethane               | <300    | ug/kg  | 300  | 300  | 1  |          | 06/24/20 12:29 | 67-72-1    | N2   |
| 2-Hexanone                     | <2500   | ug/kg  | 2500 | 2500 | 1  |          | 06/24/20 12:29 | 591-78-6   |      |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: Trip Blank**      **Lab ID: 50260268017**      Collected: 06/15/20 14:30      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "wet-weight" basis*

| Parameters                     | Results | Units  | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|---------|--|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Iodomethane                    | <100    | ug/kg  | 1000   | 100  | 1  |          | 06/24/20 12:29 | 74-88-4     |      |
| Isopropylbenzene (Cumene)      | <250    | ug/kg  | 250    | 250  | 1  |          | 06/24/20 12:29 | 98-82-8     |      |
| p-Isopropyltoluene             | <25.0   | ug/kg  | 50.0   | 25.0 | 1  |          | 06/24/20 12:29 | 99-87-6     |      |
| Methylene Chloride             | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 12:29 | 75-09-2     |      |
| 2-Methylnaphthalene            | <330    | ug/kg  | 330    | 330  | 1  |          | 06/24/20 12:29 | 91-57-6     |      |
| 4-Methyl-2-pentanone (MIBK)    | <2500   | ug/kg  | 2500   | 2500 | 1  |          | 06/24/20 12:29 | 108-10-1    |      |
| Methyl-tert-butyl ether        | <250    | ug/kg  | 250    | 250  | 1  |          | 06/24/20 12:29 | 1634-04-4   |      |
| Naphthalene                    | <330    | ug/kg  | 330    | 330  | 1  |          | 06/24/20 12:29 | 91-20-3     |      |
| n-Propylbenzene                | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 12:29 | 103-65-1    |      |
| Styrene                        | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/24/20 12:29 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane      | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 12:29 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane      | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/24/20 12:29 | 79-34-5     |      |
| Tetrachloroethene              | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/24/20 12:29 | 127-18-4    |      |
| Tetrahydrofuran                | <1000   | ug/kg  | 1000   | 1000 | 1  |          | 06/24/20 12:29 | 109-99-9    | N2   |
| Toluene                        | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 12:29 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene         | <250    | ug/kg  | 250    | 250  | 1  |          | 06/24/20 12:29 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene         | <250    | ug/kg  | 250    | 250  | 1  |          | 06/24/20 12:29 | 120-82-1    |      |
| 1,1,1-Trichloroethane          | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/24/20 12:29 | 71-55-6     |      |
| 1,1,2-Trichloroethane          | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/24/20 12:29 | 79-00-5     |      |
| Trichloroethene                | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/24/20 12:29 | 79-01-6     |      |
| Trichlorofluoromethane         | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 12:29 | 75-69-4     |      |
| 1,2,3-Trichloropropane         | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 12:29 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene         | <250    | ug/kg  | 250    | 250  | 1  |          | 06/24/20 12:29 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene         | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 12:29 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 12:29 | 108-67-8    |      |
| Vinyl chloride                 | <40.0   | ug/kg  | 40.0   | 40.0 | 1  |          | 06/24/20 12:29 | 75-01-4     |      |
| m&p-Xylene                     | <25.0   | ug/kg  | 50.0   | 25.0 | 1  |          | 06/24/20 12:29 | 179601-23-1 |      |
| o-Xylene                       | <25.0   | ug/kg  | 50.0   | 25.0 | 1  |          | 06/24/20 12:29 | 95-47-6     |      |
| <b>Surrogates</b>              |         |  |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)       | 102     | %  | 62-137 |      | 1  |          | 06/24/20 12:29 | 1868-53-7   |      |
| Toluene-d8 (S)                 | 101     | %  | 64-139 |      | 1  |          | 06/24/20 12:29 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)       | 104     | %  | 60-142 |      | 1  |          | 06/24/20 12:29 | 460-00-4    |      |

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: Field Blank**      **Lab ID: 50260268018**      Collected: 06/15/20 12:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "wet-weight" basis*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Acetone                        | <1000   | ug/kg  | 1000 | 1000 | 1  |          | 06/23/20 16:34 | 67-64-1    |      |
| Acrylonitrile                  | <100    | ug/kg  | 100  | 100  | 1  |          | 06/23/20 16:34 | 107-13-1   |      |
| tert-Amyl methyl ether         | <250    | ug/kg  | 250  | 250  | 1  |          | 06/23/20 16:34 | 994-05-8   | N2   |
| Benzene                        | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 71-43-2    |      |
| Bromobenzene                   | <100    | ug/kg  | 100  | 100  | 1  |          | 06/23/20 16:34 | 108-86-1   |      |
| Bromochloromethane             | <25.0   | ug/kg  | 50.0 | 25.0 | 1  |          | 06/23/20 16:34 | 74-97-5    |      |
| Bromodichloromethane           | <100    | ug/kg  | 100  | 100  | 1  |          | 06/23/20 16:34 | 75-27-4    |      |
| Bromoform                      | <100    | ug/kg  | 100  | 100  | 1  |          | 06/23/20 16:34 | 75-25-2    |      |
| Bromomethane                   | <200    | ug/kg  | 200  | 200  | 1  |          | 06/23/20 16:34 | 74-83-9    |      |
| 2-Butanone (MEK)               | <750    | ug/kg  | 750  | 750  | 1  |          | 06/23/20 16:34 | 78-93-3    |      |
| tert-Butyl Alcohol             | <2500   | ug/kg  | 2500 | 2500 | 1  |          | 06/23/20 16:34 | 75-65-0    |      |
| n-Butylbenzene                 | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 104-51-8   |      |
| sec-Butylbenzene               | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 135-98-8   |      |
| tert-Butylbenzene              | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 98-06-6    |      |
| Carbon disulfide               | <250    | ug/kg  | 250  | 250  | 1  |          | 06/23/20 16:34 | 75-15-0    |      |
| Carbon tetrachloride           | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 56-23-5    |      |
| Chlorobenzene                  | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 108-90-7   |      |
| Chloroethane                   | <250    | ug/kg  | 250  | 250  | 1  |          | 06/23/20 16:34 | 75-00-3    |      |
| Chloroform                     | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 67-66-3    |      |
| Chloromethane                  | <250    | ug/kg  | 250  | 250  | 1  |          | 06/23/20 16:34 | 74-87-3    |      |
| Cyclohexane                    | <500    | ug/kg  | 500  | 500  | 1  |          | 06/23/20 16:34 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 96-12-8    |      |
| Dibromochloromethane           | <100    | ug/kg  | 100  | 100  | 1  |          | 06/23/20 16:34 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 106-93-4   |      |
| Dibromomethane                 | <250    | ug/kg  | 250  | 250  | 1  |          | 06/23/20 16:34 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <100    | ug/kg  | 100  | 100  | 1  |          | 06/23/20 16:34 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <100    | ug/kg  | 100  | 100  | 1  |          | 06/23/20 16:34 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <100    | ug/kg  | 100  | 100  | 1  |          | 06/23/20 16:34 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <100    | ug/kg  | 1000 | 100  | 1  |          | 06/23/20 16:34 | 110-57-6   |      |
| Dichlorodifluoromethane        | <250    | ug/kg  | 250  | 250  | 1  |          | 06/23/20 16:34 | 75-71-8    |      |
| 1,1-Dichloroethane             | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 75-34-3    |      |
| 1,2-Dichloroethane             | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 107-06-2   |      |
| 1,1-Dichloroethene             | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 156-60-5   |      |
| 1,2-Dichloropropane            | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <100    | ug/kg  | 100  | 100  | 1  |          | 06/23/20 16:34 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <100    | ug/kg  | 100  | 100  | 1  |          | 06/23/20 16:34 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <200    | ug/kg  | 200  | 200  | 1  |          | 06/23/20 16:34 | 60-29-7    |      |
| Diisopropyl ether              | <250    | ug/kg  | 250  | 250  | 1  |          | 06/23/20 16:34 | 108-20-3   | N2   |
| Ethylbenzene                   | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <250    | ug/kg  | 250  | 250  | 1  |          | 06/23/20 16:34 | 637-92-3   | N2   |
| Hexachloroethane               | <300    | ug/kg  | 300  | 300  | 1  |          | 06/23/20 16:34 | 67-72-1    | N2   |
| 2-Hexanone                     | <2500   | ug/kg  | 2500 | 2500 | 1  |          | 06/23/20 16:34 | 591-78-6   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: Field Blank**      **Lab ID: 50260268018**      Collected: 06/15/20 12:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "wet-weight" basis*

| Parameters                     | Results | Units  | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|---------|--|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Iodomethane                    | <100    | ug/kg  | 1000   | 100  | 1  |          | 06/23/20 16:34 | 74-88-4     |      |
| Isopropylbenzene (Cumene)      | <250    | ug/kg  | 250    | 250  | 1  |          | 06/23/20 16:34 | 98-82-8     |      |
| p-Isopropyltoluene             | <25.0   | ug/kg  | 50.0   | 25.0 | 1  |          | 06/23/20 16:34 | 99-87-6     |      |
| Methylene Chloride             | <100    | ug/kg  | 100    | 100  | 1  |          | 06/23/20 16:34 | 75-09-2     |      |
| 2-Methylnaphthalene            | <330    | ug/kg  | 330    | 330  | 1  |          | 06/23/20 16:34 | 91-57-6     |      |
| 4-Methyl-2-pentanone (MIBK)    | <2500   | ug/kg  | 2500   | 2500 | 1  |          | 06/23/20 16:34 | 108-10-1    |      |
| Methyl-tert-butyl ether        | <250    | ug/kg  | 250    | 250  | 1  |          | 06/23/20 16:34 | 1634-04-4   |      |
| Naphthalene                    | <330    | ug/kg  | 330    | 330  | 1  |          | 06/23/20 16:34 | 91-20-3     |      |
| n-Propylbenzene                | <100    | ug/kg  | 100    | 100  | 1  |          | 06/23/20 16:34 | 103-65-1    |      |
| Styrene                        | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/23/20 16:34 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane      | <100    | ug/kg  | 100    | 100  | 1  |          | 06/23/20 16:34 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane      | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/23/20 16:34 | 79-34-5     |      |
| Tetrachloroethene              | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/23/20 16:34 | 127-18-4    |      |
| Tetrahydrofuran                | <1000   | ug/kg  | 1000   | 1000 | 1  |          | 06/23/20 16:34 | 109-99-9    | N2   |
| Toluene                        | <100    | ug/kg  | 100    | 100  | 1  |          | 06/23/20 16:34 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene         | <250    | ug/kg  | 250    | 250  | 1  |          | 06/23/20 16:34 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene         | <250    | ug/kg  | 250    | 250  | 1  |          | 06/23/20 16:34 | 120-82-1    |      |
| 1,1,1-Trichloroethane          | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/23/20 16:34 | 71-55-6     |      |
| 1,1,2-Trichloroethane          | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/23/20 16:34 | 79-00-5     |      |
| Trichloroethene                | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/23/20 16:34 | 79-01-6     |      |
| Trichlorofluoromethane         | <100    | ug/kg  | 100    | 100  | 1  |          | 06/23/20 16:34 | 75-69-4     |      |
| 1,2,3-Trichloropropane         | <100    | ug/kg  | 100    | 100  | 1  |          | 06/23/20 16:34 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene         | <250    | ug/kg  | 250    | 250  | 1  |          | 06/23/20 16:34 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene         | <100    | ug/kg  | 100    | 100  | 1  |          | 06/23/20 16:34 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | <100    | ug/kg  | 100    | 100  | 1  |          | 06/23/20 16:34 | 108-67-8    |      |
| Vinyl chloride                 | <40.0   | ug/kg  | 40.0   | 40.0 | 1  |          | 06/23/20 16:34 | 75-01-4     |      |
| m&p-Xylene                     | <25.0   | ug/kg  | 50.0   | 25.0 | 1  |          | 06/23/20 16:34 | 179601-23-1 |      |
| o-Xylene                       | <25.0   | ug/kg  | 50.0   | 25.0 | 1  |          | 06/23/20 16:34 | 95-47-6     |      |
| <b>Surrogates</b>              |         |  |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)       | 101     | %  | 62-137 |      | 1  |          | 06/23/20 16:34 | 1868-53-7   |      |
| Toluene-d8 (S)                 | 99      | %  | 64-139 |      | 1  |          | 06/23/20 16:34 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)       | 101     | %  | 60-142 |      | 1  |          | 06/23/20 16:34 | 460-00-4    |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

|                  |                         |                       |   |
|------------------|-------------------------|-----------------------|---|
| QC Batch:        | 568440                  | Analysis Method:      | EPA 8015 Alcohol-Glycol                 |
| QC Batch Method: | EPA 8015 Alcohol-Glycol | Analysis Description: | EPA 8015 Modified                       |
|                  |                         | Laboratory:           | Pace Analytical Services - Indianapolis |

Associated Lab Samples: 50260268001, 50260268002, 50260268003, 50260268004, 50260268005, 50260268006, 50260268007, 50260268008, 50260268009, 50260268010, 50260268011, 50260268012, 50260268013, 50260268014, 50260268015

METHOD BLANK: 2622641 Matrix: Solid

Associated Lab Samples: 50260268001, 50260268002, 50260268003, 50260268004, 50260268005, 50260268006, 50260268007, 50260268008, 50260268009, 50260268010, 50260268011, 50260268012, 50260268013, 50260268014, 50260268015

| Parameter | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Ethanol   | ug/kg | <2500        | 2500            | 2500 | 06/22/20 12:25 |            |
| Methanol  | ug/kg | <4400        | 4400            | 4400 | 06/22/20 12:25 |            |
| n-Butanol | ug/kg | <4400        | 4400            | 4400 | 06/22/20 12:25 |            |

LABORATORY CONTROL SAMPLE: 2622642

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Ethanol   | ug/kg | 50000       | 60600      | 121       | 79-113       | L5         |
| Methanol  | ug/kg | 50000       | 49900      | 100       | 75-111       |            |
| n-Butanol | ug/kg | 50000       | 50400      | 101       | 80-115       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2622873 2622874

| Parameter | Units | 50260268001 Result | MS          |           | MSD         |            | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-----------|-------------|------------|----------|-----------|--------------|-----|---------|------|
|           |       |                    | Spike Conc. | MS Result | Spike Conc. | MSD Result |          |           |              |     |         |      |
| Ethanol   | ug/kg | <2750              | 54900       | 54900     | 57600       | 55400      | 105      | 101       | 46-120       | 4   | 20      |      |
| Methanol  | ug/kg | <4830              | 54900       | 54900     | 48000       | 45700      | 87       | 83        | 42-119       | 5   | 20      |      |
| n-Butanol | ug/kg | <4830              | 54900       | 54900     | 47600       | 46100      | 87       | 84        | 10-142       | 3   | 20      |      |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

|                  |          |                       |   |
|------------------|----------|-----------------------|---|
| QC Batch:        | 568327   | Analysis Method:      | EPA 6010                                |
| QC Batch Method: | EPA 3050 | Analysis Description: | 6010 MET                                |
|                  |          | Laboratory:           | Pace Analytical Services - Indianapolis |

Associated Lab Samples: 50260268001, 50260268002, 50260268003, 50260268004, 50260268005, 50260268006, 50260268007, 50260268008, 50260268009, 50260268010, 50260268011, 50260268012, 50260268013, 50260268014, 50260268015

METHOD BLANK: 2622338 Matrix: Solid  
Associated Lab Samples: 50260268001, 50260268002, 50260268003, 50260268004, 50260268005, 50260268006, 50260268007, 50260268008, 50260268009, 50260268010, 50260268011, 50260268012, 50260268013, 50260268014, 50260268015

| Parameter  | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|------------|-------|--------------|-----------------|-------|----------------|------------|
| Antimony   | ug/kg | <1000        | 1000            | 1000  | 06/29/20 11:44 |            |
| Arsenic    | ug/kg | <2000        | 2000            | 2000  | 06/29/20 11:44 |            |
| Barium     | ug/kg | <1000        | 1000            | 1000  | 06/29/20 11:44 |            |
| Beryllium  | ug/kg | <500         | 500             | 500   | 06/29/20 11:44 |            |
| Boron      | ug/kg | <8000        | 8000            | 8000  | 06/29/20 11:44 |            |
| Calcium    | ug/kg | <6630        | 50000           | 6630  | 06/29/20 11:44 |            |
| Chromium   | ug/kg | <2000        | 2000            | 2000  | 06/29/20 11:44 |            |
| Copper     | ug/kg | <1000        | 1000            | 1000  | 06/29/20 11:44 |            |
| Iron       | ug/kg | <7600        | 25000           | 7600  | 06/29/20 11:44 |            |
| Lead       | ug/kg | <10000       | 10000           | 10000 | 06/29/20 11:44 |            |
| Magnesium  | ug/kg | <4000        | 25000           | 4000  | 06/29/20 11:44 |            |
| Manganese  | ug/kg | <1000        | 1000            | 1000  | 06/29/20 11:44 |            |
| Molybdenum | ug/kg | <1000        | 1000            | 1000  | 06/29/20 11:44 |            |
| Nickel     | ug/kg | <1000        | 1000            | 1000  | 06/29/20 11:44 |            |
| Potassium  | ug/kg | <4890        | 50000           | 4890  | 06/29/20 11:44 |            |
| Sodium     | ug/kg | <13600       | 25000           | 13600 | 06/29/20 11:44 |            |
| Strontium  | ug/kg | <5000        | 5000            | 5000  | 06/29/20 11:44 |            |
| Vanadium   | ug/kg | <1000        | 1000            | 1000  | 06/29/20 11:44 |            |
| Zinc       | ug/kg | <1000        | 1000            | 1000  | 06/29/20 11:44 |            |

LABORATORY CONTROL SAMPLE: 2622339

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Antimony  | ug/kg | 50000       | 49700      | 99        | 80-120       |            |
| Arsenic   | ug/kg | 50000       | 50300      | 101       | 80-120       |            |
| Barium    | ug/kg | 50000       | 48800      | 98        | 80-120       |            |
| Beryllium | ug/kg | 50000       | 51000      | 102       | 80-120       |            |
| Boron     | ug/kg | 50000       | 49600      | 99        | 80-120       |            |
| Calcium   | ug/kg | 500000      | 499000     | 100       | 80-120       |            |
| Chromium  | ug/kg | 50000       | 49800      | 100       | 80-120       |            |
| Copper    | ug/kg | 50000       | 47500      | 95        | 80-120       |            |
| Iron      | ug/kg | 500000      | 492000     | 98        | 80-120       |            |
| Lead      | ug/kg | 50000       | 49500      | 99        | 80-120       |            |
| Magnesium | ug/kg | 500000      | 492000     | 98        | 80-120       |            |
| Manganese | ug/kg | 50000       | 50000      | 100       | 80-120       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

LABORATORY CONTROL SAMPLE: 2622339

| Parameter  | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Molybdenum | ug/kg | 50000       | 52100      | 104       | 80-120       |            |
| Nickel     | ug/kg | 50000       | 50100      | 100       | 80-120       |            |
| Potassium  | ug/kg | 500000      | 489000     | 98        | 80-120       |            |
| Sodium     | ug/kg | 500000      | 495000     | 99        | 80-120       |            |
| Strontium  | ug/kg | 50000       | 49700      | 99        | 80-120       |            |
| Vanadium   | ug/kg | 50000       | 49300      | 99        | 80-120       |            |
| Zinc       | ug/kg | 50000       | 50600      | 101       | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2622340 2622341

| Parameter  | Units | MS                 |             | MSD         |           | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual  |
|------------|-------|--------------------|-------------|-------------|-----------|----------|-----------|--------------|--------|---------|-------|
|            |       | 50260268003 Result | Spike Conc. | Spike Conc. | MS Result |          |           |              |        |         |       |
| Antimony   | ug/kg | <957               | 45300       | 46300       | 25100     | 26600    | 56        | 58           | 75-125 | 6       | 20 M3 |
| Arsenic    | ug/kg | <1910              | 45300       | 46300       | 43400     | 44700    | 94        | 94           | 75-125 | 3       | 20    |
| Barium     | ug/kg | 8540               | 45300       | 46300       | 50100     | 51600    | 92        | 93           | 75-125 | 3       | 20    |
| Beryllium  | ug/kg | <478               | 45300       | 46300       | 42700     | 44200    | 94        | 95           | 75-125 | 3       | 20    |
| Boron      | ug/kg | <7650              | 45300       | 46300       | 43500     | 45300    | 94        | 95           | 75-125 | 4       | 20    |
| Calcium    | ug/kg | 628000             | 453000      | 463000      | 1260000   | 1270000  | 141       | 139          | 75-125 | 1       | 20 M3 |
| Chromium   | ug/kg | 5880               | 45300       | 46300       | 47300     | 48700    | 92        | 92           | 75-125 | 3       | 20    |
| Copper     | ug/kg | 1580               | 45300       | 46300       | 41100     | 42600    | 87        | 88           | 75-125 | 4       | 20    |
| Iron       | ug/kg | 3940000            | 453000      | 463000      | 4610000   | 4510000  | 147       | 124          | 75-125 | 2       | 20 P6 |
| Lead       | ug/kg | <9570              | 45300       | 46300       | 42700     | 44100    | 90        | 91           | 75-125 | 3       | 20    |
| Magnesium  | ug/kg | 739000             | 453000      | 463000      | 1290000   | 1260000  | 121       | 112          | 75-125 | 2       | 20    |
| Manganese  | ug/kg | 27300              | 45300       | 46300       | 74600     | 74200    | 105       | 101          | 75-125 | 1       | 20    |
| Molybdenum | ug/kg | <957               | 45300       | 46300       | 42400     | 44100    | 93        | 95           | 75-125 | 4       | 20    |
| Nickel     | ug/kg | 3880               | 45300       | 46300       | 45100     | 46500    | 91        | 92           | 75-125 | 3       | 20    |
| Potassium  | ug/kg | 148000             | 453000      | 463000      | 649000    | 658000   | 111       | 110          | 75-125 | 1       | 20    |
| Sodium     | ug/kg | 23200J             | 453000      | 463000      | 453000    | 464000   | 95        | 95           | 75-125 | 2       | 20    |
| Strontium  | ug/kg | <4780              | 45300       | 46300       | 46500     | 48000    | 96        | 97           | 75-125 | 3       | 20    |
| Vanadium   | ug/kg | 8010               | 45300       | 46300       | 50800     | 52400    | 95        | 96           | 75-125 | 3       | 20    |
| Zinc       | ug/kg | 8190               | 45300       | 46300       | 50500     | 51800    | 94        | 94           | 75-125 | 2       | 20    |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

QC Batch: 568592 Analysis Method: EPA 6020  
QC Batch Method: EPA 3050B Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50260268001, 50260268002, 50260268003, 50260268004, 50260268005, 50260268006, 50260268007, 50260268008, 50260268009, 50260268010, 50260268011, 50260268012, 50260268013, 50260268014, 50260268015

METHOD BLANK: 2623199 Matrix: Solid  
Associated Lab Samples: 50260268001, 50260268002, 50260268003, 50260268004, 50260268005, 50260268006, 50260268007, 50260268008, 50260268009, 50260268010, 50260268011, 50260268012, 50260268013, 50260268014, 50260268015

| Parameter | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Aluminum  | ug/kg | <970         | 970             | 970  | 06/25/20 13:18 |            |
| Cadmium   | ug/kg | <194         | 194             | 194  | 06/25/20 13:18 |            |
| Cobalt    | ug/kg | <485         | 485             | 485  | 06/25/20 13:18 |            |
| Selenium  | ug/kg | <194         | 194             | 194  | 06/25/20 13:18 |            |
| Silver    | ug/kg | <97.0        | 97.0            | 97.0 | 06/25/20 13:18 |            |
| Thallium  | ug/kg | <485         | 485             | 485  | 06/25/20 13:18 |            |
| Titanium  | ug/kg | <25.8        | 97.0            | 25.8 | 06/25/20 13:18 | N2         |

LABORATORY CONTROL SAMPLE: 2623200

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Aluminum  | ug/kg | 38000       | 38700      | 102       | 80-120       |            |
| Cadmium   | ug/kg | 3800        | 3510       | 92        | 80-120       |            |
| Cobalt    | ug/kg | 3800        | 3870       | 102       | 80-120       |            |
| Selenium  | ug/kg | 3800        | 3430       | 90        | 80-120       |            |
| Silver    | ug/kg | 3800        | 3760       | 99        | 80-120       |            |
| Thallium  | ug/kg | 3800        | 3860       | 102       | 80-120       |            |
| Titanium  | ug/kg | 3800        | 3910       | 103       | 80-120       | N2         |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2623201 2623205

| Parameter | Units | MS                 |             | MSD         |           | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual     |
|-----------|-------|--------------------|-------------|-------------|-----------|----------|-----------|--------------|--------|---------|----------|
|           |       | 50260268001 Result | Spike Conc. | Spike Conc. | MS Result |          |           |              |        |         |          |
| Aluminum  | ug/kg | 4330000            | 43000       | 41000       | 4780000   | 5450000  | 1060      | 2740         | 75-125 | 13      | 20 P6    |
| Cadmium   | ug/kg | <218               | 4300        | 4100        | 4200      | 4010     | 94        | 94           | 75-125 | 5       | 20       |
| Cobalt    | ug/kg | 1400               | 4300        | 4100        | 5290      | 5080     | 91        | 90           | 75-125 | 4       | 20       |
| Selenium  | ug/kg | 262                | 4300        | 4100        | 3390      | 3280     | 73        | 74           | 75-125 | 3       | 20 M3    |
| Silver    | ug/kg | 157                | 4300        | 4100        | 4190      | 3910     | 94        | 91           | 75-125 | 7       | 20       |
| Thallium  | ug/kg | <544               | 4300        | 4100        | 4420      | 4210     | 102       | 102          | 75-125 | 5       | 20       |
| Titanium  | ug/kg | 237000             | 4300        | 4100        | 256000    | 280000   | 438       | 1060         | 75-125 | 9       | 20 N2,P6 |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

QC Batch: 568677 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035 Volatile Organics  
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50260268018

METHOD BLANK: 2623525 Matrix: Solid  
Associated Lab Samples: 50260268018

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| 1,1,1-Trichloroethane       | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| 1,1,2,2-Tetrachloroethane   | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| 1,1,2-Trichloroethane       | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| 1,1-Dichloroethane          | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| 1,1-Dichloroethene          | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| 1,2,3-Trichlorobenzene      | ug/kg | <250         | 250             | 250  | 06/23/20 15:27 |            |
| 1,2,3-Trichloropropane      | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| 1,2,3-Trimethylbenzene      | ug/kg | <250         | 250             | 250  | 06/23/20 15:27 | N2         |
| 1,2,4-Trichlorobenzene      | ug/kg | <250         | 250             | 250  | 06/23/20 15:27 |            |
| 1,2,4-Trimethylbenzene      | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| 1,2-Dibromo-3-chloropropane | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| 1,2-Dichlorobenzene         | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| 1,2-Dichloroethane          | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| 1,2-Dichloropropane         | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| 1,3,5-Trimethylbenzene      | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| 1,3-Dichlorobenzene         | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| 1,4-Dichlorobenzene         | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| 2-Butanone (MEK)            | ug/kg | <750         | 750             | 750  | 06/23/20 15:27 |            |
| 2-Hexanone                  | ug/kg | <2500        | 2500            | 2500 | 06/23/20 15:27 |            |
| 2-Methylnaphthalene         | ug/kg | <330         | 330             | 330  | 06/23/20 15:27 |            |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | <2500        | 2500            | 2500 | 06/23/20 15:27 |            |
| Acetone                     | ug/kg | <1000        | 1000            | 1000 | 06/23/20 15:27 |            |
| Acrylonitrile               | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| Benzene                     | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| Bromobenzene                | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| Bromochloromethane          | ug/kg | <25.0        | 50.0            | 25.0 | 06/23/20 15:27 |            |
| Bromodichloromethane        | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| Bromoform                   | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| Bromomethane                | ug/kg | <200         | 200             | 200  | 06/23/20 15:27 |            |
| Carbon disulfide            | ug/kg | <250         | 250             | 250  | 06/23/20 15:27 |            |
| Carbon tetrachloride        | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| Chlorobenzene               | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| Chloroethane                | ug/kg | <250         | 250             | 250  | 06/23/20 15:27 |            |
| Chloroform                  | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| Chloromethane               | ug/kg | <250         | 250             | 250  | 06/23/20 15:27 |            |
| cis-1,2-Dichloroethene      | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| cis-1,3-Dichloropropene     | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| Cyclohexane                 | ug/kg | <500         | 500             | 500  | 06/23/20 15:27 | N2         |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

METHOD BLANK: 2623525 Matrix: Solid  
Associated Lab Samples: 50260268018

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| Dibromochloromethane        | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| Dibromomethane              | ug/kg | <250         | 250             | 250  | 06/23/20 15:27 |            |
| Dichlorodifluoromethane     | ug/kg | <250         | 250             | 250  | 06/23/20 15:27 |            |
| Diethyl ether (Ethyl ether) | ug/kg | <200         | 200             | 200  | 06/23/20 15:27 |            |
| Diisopropyl ether           | ug/kg | <250         | 250             | 250  | 06/23/20 15:27 | N2         |
| Ethyl-tert-butyl ether      | ug/kg | <250         | 250             | 250  | 06/23/20 15:27 | N2         |
| Ethylbenzene                | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| Hexachloroethane            | ug/kg | <300         | 300             | 300  | 06/23/20 15:27 | N2         |
| Iodomethane                 | ug/kg | <100         | 1000            | 100  | 06/23/20 15:27 |            |
| Isopropylbenzene (Cumene)   | ug/kg | <250         | 250             | 250  | 06/23/20 15:27 |            |
| m&p-Xylene                  | ug/kg | <25.0        | 50.0            | 25.0 | 06/23/20 15:27 |            |
| Methyl-tert-butyl ether     | ug/kg | <250         | 250             | 250  | 06/23/20 15:27 |            |
| Methylene Chloride          | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| n-Butylbenzene              | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| n-Propylbenzene             | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| Naphthalene                 | ug/kg | <330         | 330             | 330  | 06/23/20 15:27 |            |
| o-Xylene                    | ug/kg | <25.0        | 50.0            | 25.0 | 06/23/20 15:27 |            |
| p-Isopropyltoluene          | ug/kg | <25.0        | 50.0            | 25.0 | 06/23/20 15:27 |            |
| sec-Butylbenzene            | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| Styrene                     | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| tert-Amylmethyl ether       | ug/kg | <250         | 250             | 250  | 06/23/20 15:27 | N2         |
| tert-Butyl Alcohol          | ug/kg | <2500        | 2500            | 2500 | 06/23/20 15:27 |            |
| tert-Butylbenzene           | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| Tetrachloroethane           | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| Tetrahydrofuran             | ug/kg | <1000        | 1000            | 1000 | 06/23/20 15:27 | N2         |
| Toluene                     | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| trans-1,2-Dichloroethene    | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| trans-1,3-Dichloropropene   | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| trans-1,4-Dichloro-2-butene | ug/kg | <100         | 1000            | 100  | 06/23/20 15:27 |            |
| Trichloroethene             | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| Trichlorofluoromethane      | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| Vinyl chloride              | ug/kg | <40.0        | 40.0            | 40.0 | 06/23/20 15:27 |            |
| 4-Bromofluorobenzene (S)    | %     | 99           | 60-142          |      | 06/23/20 15:27 |            |
| Dibromofluoromethane (S)    | %     | 104          | 62-137          |      | 06/23/20 15:27 |            |
| Toluene-d8 (S)              | %     | 96           | 64-139          |      | 06/23/20 15:27 |            |

LABORATORY CONTROL SAMPLE: 2623526

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/kg | 100         | <100       | 87        | 82-119       |            |
| 1,1,1-Trichloroethane     | ug/kg | 100         | 98.9       | 99        | 82-125       |            |
| 1,1,2,2-Tetrachloroethane | ug/kg | 100         | 84.8       | 85        | 54-137       |            |
| 1,1,2-Trichloroethane     | ug/kg | 100         | 84.1       | 84        | 77-122       |            |
| 1,1-Dichloroethane        | ug/kg | 100         | 101        | 101       | 68-126       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

LABORATORY CONTROL SAMPLE: 2623526

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1-Dichloroethene          | ug/kg | 100         | 96.3       | 96        | 77-126       |            |
| 1,2,3-Trichlorobenzene      | ug/kg | 100         | <250       | 88        | 72-126       |            |
| 1,2,3-Trichloropropane      | ug/kg | 100         | <100       | 76        | 66-125       |            |
| 1,2,4-Trichlorobenzene      | ug/kg | 100         | <250       | 91        | 79-124       |            |
| 1,2,4-Trimethylbenzene      | ug/kg | 100         | <100       | 82        | 78-125       |            |
| 1,2-Dibromo-3-chloropropane | ug/kg | 100         | 85.6       | 86        | 64-133       |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | 100         | 83.0       | 83        | 78-124       |            |
| 1,2-Dichlorobenzene         | ug/kg | 100         | <100       | 80        | 79-117       |            |
| 1,2-Dichloroethane          | ug/kg | 100         | 90.2       | 90        | 74-116       |            |
| 1,2-Dichloropropane         | ug/kg | 100         | 90.0       | 90        | 70-142       |            |
| 1,3,5-Trimethylbenzene      | ug/kg | 100         | <100       | 83        | 76-122       |            |
| 1,3-Dichlorobenzene         | ug/kg | 100         | <100       | 84        | 80-118       |            |
| 1,4-Dichlorobenzene         | ug/kg | 100         | <100       | 80        | 76-115       |            |
| 2-Butanone (MEK)            | ug/kg | 500         | <750       | 89        | 65-126       |            |
| 2-Hexanone                  | ug/kg | 500         | <2500      | 97        | 54-141       |            |
| 2-Methylnaphthalene         | ug/kg | 100         | <330       | 71        | 47-148       |            |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | 500         | <2500      | 85        | 60-133       |            |
| Acetone                     | ug/kg | 500         | <1000      | 108       | 49-139       |            |
| Acrylonitrile               | ug/kg | 400         | 349        | 87        | 66-133       |            |
| Benzene                     | ug/kg | 100         | 90.2       | 90        | 71-126       |            |
| Bromobenzene                | ug/kg | 100         | <100       | 82        | 77-119       |            |
| Bromochloromethane          | ug/kg | 100         | 79.0       | 79        | 60-117       |            |
| Bromodichloromethane        | ug/kg | 100         | <100       | 83        | 79-122       |            |
| Bromoform                   | ug/kg | 100         | <100       | 76        | 64-121       |            |
| Bromomethane                | ug/kg | 100         | <200       | 103       | 10-200       |            |
| Carbon disulfide            | ug/kg | 100         | <250       | 97        | 54-129       |            |
| Carbon tetrachloride        | ug/kg | 100         | 105        | 105       | 78-120       |            |
| Chlorobenzene               | ug/kg | 100         | 87.5       | 87        | 81-117       |            |
| Chloroethane                | ug/kg | 100         | <250       | 102       | 54-134       |            |
| Chloroform                  | ug/kg | 100         | 83.3       | 83        | 80-119       |            |
| Chloromethane               | ug/kg | 100         | <250       | 93        | 31-118       |            |
| cis-1,2-Dichloroethene      | ug/kg | 100         | 87.4       | 87        | 77-125       |            |
| cis-1,3-Dichloropropene     | ug/kg | 100         | <100       | 93        | 74-133       |            |
| Cyclohexane                 | ug/kg | 100         | <500       | 103       | 49-128       | N2         |
| Dibromochloromethane        | ug/kg | 100         | <100       | 87        | 78-124       |            |
| Dibromomethane              | ug/kg | 100         | <250       | 86        | 73-129       |            |
| Dichlorodifluoromethane     | ug/kg | 100         | <250       | 119       | 32-173       |            |
| Diethyl ether (Ethyl ether) | ug/kg | 100         | <200       | 90        | 50-150       |            |
| Ethylbenzene                | ug/kg | 100         | 90.8       | 91        | 74-127       |            |
| Iodomethane                 | ug/kg | 200         | 132J       | 66        | 10-200       |            |
| Isopropylbenzene (Cumene)   | ug/kg | 100         | <250       | 94        | 85-121       |            |
| m&p-Xylene                  | ug/kg | 200         | 179        | 90        | 72-130       |            |
| Methyl-tert-butyl ether     | ug/kg | 100         | <250       | 88        | 78-135       |            |
| Methylene Chloride          | ug/kg | 100         | <100       | 91        | 73-119       |            |
| n-Butylbenzene              | ug/kg | 100         | 90.4       | 90        | 69-126       |            |
| n-Propylbenzene             | ug/kg | 100         | <100       | 85        | 73-124       |            |
| Naphthalene                 | ug/kg | 100         | <330       | 92        | 71-128       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

LABORATORY CONTROL SAMPLE: 2623526

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| o-Xylene                    | ug/kg | 100         | 89.0       | 89        | 74-128       |            |
| p-Isopropyltoluene          | ug/kg | 100         | 89.8       | 90        | 74-124       |            |
| sec-Butylbenzene            | ug/kg | 100         | 87.4       | 87        | 72-124       |            |
| Styrene                     | ug/kg | 100         | 88.8       | 89        | 83-121       |            |
| tert-Butyl Alcohol          | ug/kg | 200         | <2500      | 103       | 50-150       |            |
| tert-Butylbenzene           | ug/kg | 100         | 65.8       | 66        | 54-104       |            |
| Tetrachloroethene           | ug/kg | 100         | 95.5       | 95        | 74-120       |            |
| Tetrahydrofuran             | ug/kg | 100         | <1000      | 93        | 53-135       | N2         |
| Toluene                     | ug/kg | 100         | <100       | 90        | 71-124       |            |
| trans-1,2-Dichloroethene    | ug/kg | 100         | 93.9       | 94        | 73-131       |            |
| trans-1,3-Dichloropropene   | ug/kg | 100         | <100       | 83        | 68-128       |            |
| trans-1,4-Dichloro-2-butene | ug/kg | 400         | 311J       | 78        | 22-132       |            |
| Trichloroethene             | ug/kg | 100         | 92.2       | 92        | 75-121       |            |
| Trichlorofluoromethane      | ug/kg | 100         | 125        | 125       | 64-135       |            |
| Vinyl chloride              | ug/kg | 100         | 109        | 109       | 51-137       |            |
| 4-Bromofluorobenzene (S)    | %     |             |            | 100       | 60-142       |            |
| Dibromofluoromethane (S)    | %     |             |            | 95        | 62-137       |            |
| Toluene-d8 (S)              | %     |             |            | 98        | 64-139       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

QC Batch: 568681 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035 Volatile Organics  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50260268001, 50260268002, 50260268003, 50260268004, 50260268005, 50260268006, 50260268007, 50260268008, 50260268009, 50260268010, 50260268011, 50260268012, 50260268013, 50260268014, 50260268015, 50260268016, 50260268017

METHOD BLANK: 2623538 Matrix: Solid  
Associated Lab Samples: 50260268001, 50260268002, 50260268003, 50260268004, 50260268005, 50260268006, 50260268007, 50260268008, 50260268009, 50260268010, 50260268011, 50260268012, 50260268013, 50260268014, 50260268015, 50260268016, 50260268017

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| 1,1,1-Trichloroethane       | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| 1,1,2,2-Tetrachloroethane   | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| 1,1,2-Trichloroethane       | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| 1,1-Dichloroethane          | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| 1,1-Dichloroethene          | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| 1,2,3-Trichlorobenzene      | ug/kg | <250         | 250             | 250  | 06/24/20 03:04 |            |
| 1,2,3-Trichloropropane      | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| 1,2,3-Trimethylbenzene      | ug/kg | <250         | 250             | 250  | 06/24/20 03:04 | N2         |
| 1,2,4-Trichlorobenzene      | ug/kg | <250         | 250             | 250  | 06/24/20 03:04 |            |
| 1,2,4-Trimethylbenzene      | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| 1,2-Dibromo-3-chloropropane | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| 1,2-Dichlorobenzene         | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| 1,2-Dichloroethane          | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| 1,2-Dichloropropane         | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| 1,3,5-Trimethylbenzene      | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| 1,3-Dichlorobenzene         | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| 1,4-Dichlorobenzene         | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| 2-Butanone (MEK)            | ug/kg | <750         | 750             | 750  | 06/24/20 03:04 |            |
| 2-Hexanone                  | ug/kg | <2500        | 2500            | 2500 | 06/24/20 03:04 |            |
| 2-Methylnaphthalene         | ug/kg | <330         | 330             | 330  | 06/24/20 03:04 |            |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | <2500        | 2500            | 2500 | 06/24/20 03:04 |            |
| Acetone                     | ug/kg | <1000        | 1000            | 1000 | 06/24/20 03:04 |            |
| Acrylonitrile               | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| Benzene                     | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| Bromobenzene                | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| Bromochloromethane          | ug/kg | <25.0        | 50.0            | 25.0 | 06/24/20 03:04 |            |
| Bromodichloromethane        | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| Bromoform                   | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| Bromomethane                | ug/kg | <200         | 200             | 200  | 06/24/20 03:04 |            |
| Carbon disulfide            | ug/kg | <250         | 250             | 250  | 06/24/20 03:04 |            |
| Carbon tetrachloride        | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| Chlorobenzene               | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| Chloroethane                | ug/kg | <250         | 250             | 250  | 06/24/20 03:04 |            |
| Chloroform                  | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| Chloromethane               | ug/kg | <250         | 250             | 250  | 06/24/20 03:04 |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

METHOD BLANK: 2623538

Matrix: Solid

Associated Lab Samples: 50260268001, 50260268002, 50260268003, 50260268004, 50260268005, 50260268006, 50260268007, 50260268008, 50260268009, 50260268010, 50260268011, 50260268012, 50260268013, 50260268014, 50260268015, 50260268016, 50260268017

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| cis-1,2-Dichloroethene      | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| cis-1,3-Dichloropropene     | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| Cyclohexane                 | ug/kg | <500         | 500             | 500  | 06/24/20 03:04 | N2         |
| Dibromochloromethane        | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| Dibromomethane              | ug/kg | <250         | 250             | 250  | 06/24/20 03:04 |            |
| Dichlorodifluoromethane     | ug/kg | <250         | 250             | 250  | 06/24/20 03:04 |            |
| Diethyl ether (Ethyl ether) | ug/kg | <200         | 200             | 200  | 06/24/20 03:04 |            |
| Diisopropyl ether           | ug/kg | <250         | 250             | 250  | 06/24/20 03:04 | N2         |
| Ethyl-tert-butyl ether      | ug/kg | <250         | 250             | 250  | 06/24/20 03:04 | N2         |
| Ethylbenzene                | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| Hexachloroethane            | ug/kg | <300         | 300             | 300  | 06/24/20 03:04 | N2         |
| Iodomethane                 | ug/kg | <100         | 1000            | 100  | 06/24/20 03:04 |            |
| Isopropylbenzene (Cumene)   | ug/kg | <250         | 250             | 250  | 06/24/20 03:04 |            |
| m&p-Xylene                  | ug/kg | <25.0        | 50.0            | 25.0 | 06/24/20 03:04 |            |
| Methyl-tert-butyl ether     | ug/kg | <250         | 250             | 250  | 06/24/20 03:04 |            |
| Methylene Chloride          | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| n-Butylbenzene              | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| n-Propylbenzene             | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| Naphthalene                 | ug/kg | <330         | 330             | 330  | 06/24/20 03:04 |            |
| o-Xylene                    | ug/kg | <25.0        | 50.0            | 25.0 | 06/24/20 03:04 |            |
| p-Isopropyltoluene          | ug/kg | <25.0        | 50.0            | 25.0 | 06/24/20 03:04 |            |
| sec-Butylbenzene            | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| Styrene                     | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| tert-Amylmethyl ether       | ug/kg | <250         | 250             | 250  | 06/24/20 03:04 | N2         |
| tert-Butyl Alcohol          | ug/kg | <2500        | 2500            | 2500 | 06/24/20 03:04 |            |
| tert-Butylbenzene           | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| Tetrachloroethene           | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| Tetrahydrofuran             | ug/kg | <1000        | 1000            | 1000 | 06/24/20 03:04 | N2         |
| Toluene                     | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| trans-1,2-Dichloroethene    | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| trans-1,3-Dichloropropene   | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| trans-1,4-Dichloro-2-butene | ug/kg | <100         | 1000            | 100  | 06/24/20 03:04 |            |
| Trichloroethene             | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| Trichlorofluoromethane      | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| Vinyl chloride              | ug/kg | <40.0        | 40.0            | 40.0 | 06/24/20 03:04 |            |
| 4-Bromofluorobenzene (S)    | %     | 103          | 60-142          |      | 06/24/20 03:04 |            |
| Dibromofluoromethane (S)    | %     | 106          | 62-137          |      | 06/24/20 03:04 |            |
| Toluene-d8 (S)              | %     | 98           | 64-139          |      | 06/24/20 03:04 |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

LABORATORY CONTROL SAMPLE: 2623539

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/kg | 100         | <100       | 96        | 82-119       |            |
| 1,1,1-Trichloroethane       | ug/kg | 100         | 103        | 103       | 82-125       |            |
| 1,1,2,2-Tetrachloroethane   | ug/kg | 100         | 93.9       | 94        | 54-137       |            |
| 1,1,2-Trichloroethane       | ug/kg | 100         | 94.6       | 95        | 77-122       |            |
| 1,1-Dichloroethane          | ug/kg | 100         | 103        | 103       | 68-126       |            |
| 1,1-Dichloroethene          | ug/kg | 100         | 101        | 101       | 77-126       |            |
| 1,2,3-Trichlorobenzene      | ug/kg | 100         | <250       | 97        | 72-126       |            |
| 1,2,3-Trichloropropane      | ug/kg | 100         | <100       | 85        | 66-125       |            |
| 1,2,4-Trichlorobenzene      | ug/kg | 100         | <250       | 98        | 79-124       |            |
| 1,2,4-Trimethylbenzene      | ug/kg | 100         | <100       | 86        | 78-125       |            |
| 1,2-Dibromo-3-chloropropane | ug/kg | 100         | 91.3       | 91        | 64-133       |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | 100         | 92.3       | 92        | 78-124       |            |
| 1,2-Dichlorobenzene         | ug/kg | 100         | <100       | 86        | 79-117       |            |
| 1,2-Dichloroethane          | ug/kg | 100         | 93.3       | 93        | 74-116       |            |
| 1,2-Dichloropropane         | ug/kg | 100         | 95.2       | 95        | 70-142       |            |
| 1,3,5-Trimethylbenzene      | ug/kg | 100         | <100       | 88        | 76-122       |            |
| 1,3-Dichlorobenzene         | ug/kg | 100         | <100       | 87        | 80-118       |            |
| 1,4-Dichlorobenzene         | ug/kg | 100         | <100       | 83        | 76-115       |            |
| 2-Butanone (MEK)            | ug/kg | 500         | <750       | 96        | 65-126       |            |
| 2-Hexanone                  | ug/kg | 500         | <2500      | 112       | 54-141       |            |
| 2-Methylnaphthalene         | ug/kg | 100         | <330       | 79        | 47-148       |            |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | 500         | <2500      | 98        | 60-133       |            |
| Acetone                     | ug/kg | 500         | <1000      | 113       | 49-139       |            |
| Acrylonitrile               | ug/kg | 400         | 384        | 96        | 66-133       |            |
| Benzene                     | ug/kg | 100         | 95.7       | 96        | 71-126       |            |
| Bromobenzene                | ug/kg | 100         | <100       | 89        | 77-119       |            |
| Bromochloromethane          | ug/kg | 100         | 85.2       | 85        | 60-117       |            |
| Bromodichloromethane        | ug/kg | 100         | <100       | 88        | 79-122       |            |
| Bromoform                   | ug/kg | 100         | <100       | 84        | 64-121       |            |
| Bromomethane                | ug/kg | 100         | <200       | 80        | 10-200       |            |
| Carbon disulfide            | ug/kg | 100         | <250       | 98        | 54-129       |            |
| Carbon tetrachloride        | ug/kg | 100         | 105        | 105       | 78-120       |            |
| Chlorobenzene               | ug/kg | 100         | 93.6       | 94        | 81-117       |            |
| Chloroethane                | ug/kg | 100         | <250       | 101       | 54-134       |            |
| Chloroform                  | ug/kg | 100         | 87.3       | 87        | 80-119       |            |
| Chloromethane               | ug/kg | 100         | <250       | 95        | 31-118       |            |
| cis-1,2-Dichloroethene      | ug/kg | 100         | 92.5       | 93        | 77-125       |            |
| cis-1,3-Dichloropropene     | ug/kg | 100         | <100       | 97        | 74-133       |            |
| Cyclohexane                 | ug/kg | 100         | <500       | 107       | 49-128 N2    |            |
| Dibromochloromethane        | ug/kg | 100         | <100       | 97        | 78-124       |            |
| Dibromomethane              | ug/kg | 100         | <250       | 90        | 73-129       |            |
| Dichlorodifluoromethane     | ug/kg | 100         | <250       | 124       | 32-173       |            |
| Diethyl ether (Ethyl ether) | ug/kg | 100         | <200       | 95        | 50-150       |            |
| Ethylbenzene                | ug/kg | 100         | 96.6       | 97        | 74-127       |            |
| Iodomethane                 | ug/kg | 200         | 110J       | 55        | 10-200       |            |
| Isopropylbenzene (Cumene)   | ug/kg | 100         | <250       | 101       | 85-121       |            |
| m&p-Xylene                  | ug/kg | 200         | 195        | 97        | 72-130       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

LABORATORY CONTROL SAMPLE: 2623539

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Methyl-tert-butyl ether     | ug/kg | 100         | <250       | 97        | 78-135       |            |
| Methylene Chloride          | ug/kg | 100         | <100       | 99        | 73-119       |            |
| n-Butylbenzene              | ug/kg | 100         | 90.0       | 90        | 69-126       |            |
| n-Propylbenzene             | ug/kg | 100         | <100       | 90        | 73-124       |            |
| Naphthalene                 | ug/kg | 100         | <330       | 101       | 71-128       |            |
| o-Xylene                    | ug/kg | 100         | 93.9       | 94        | 74-128       |            |
| p-Isopropyltoluene          | ug/kg | 100         | 92.0       | 92        | 74-124       |            |
| sec-Butylbenzene            | ug/kg | 100         | 91.0       | 91        | 72-124       |            |
| Styrene                     | ug/kg | 100         | 94.1       | 94        | 83-121       |            |
| tert-Butyl Alcohol          | ug/kg | 200         | <2500      | 131       | 50-150       |            |
| tert-Butylbenzene           | ug/kg | 100         | 68.8       | 69        | 54-104       |            |
| Tetrachloroethene           | ug/kg | 100         | 98.8       | 99        | 74-120       |            |
| Tetrahydrofuran             | ug/kg | 100         | <1000      | 108       | 53-135       | N2         |
| Toluene                     | ug/kg | 100         | <100       | 99        | 71-124       |            |
| trans-1,2-Dichloroethene    | ug/kg | 100         | 98.3       | 98        | 73-131       |            |
| trans-1,3-Dichloropropene   | ug/kg | 100         | <100       | 89        | 68-128       |            |
| trans-1,4-Dichloro-2-butene | ug/kg | 400         | 313J       | 78        | 22-132       |            |
| Trichloroethene             | ug/kg | 100         | 94.1       | 94        | 75-121       |            |
| Trichlorofluoromethane      | ug/kg | 100         | 128        | 128       | 64-135       |            |
| Vinyl chloride              | ug/kg | 100         | 113        | 113       | 51-137       |            |
| 4-Bromofluorobenzene (S)    | %     |             |            | 105       | 60-142       |            |
| Dibromofluoromethane (S)    | %     |             |            | 99        | 62-137       |            |
| Toluene-d8 (S)              | %     |             |            | 102       | 64-139       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

QC Batch: 569057 Analysis Method: EPA 8082  
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50260268002, 50260268004, 50260268008, 50260268009, 50260268012

METHOD BLANK: 2625307 Matrix: Solid  
Associated Lab Samples: 50260268002, 50260268004, 50260268008, 50260268009, 50260268012

| Parameter                | Units | Blank Result | Reporting Limit | MDL | Analyzed       | Qualifiers |
|--------------------------|-------|--------------|-----------------|-----|----------------|------------|
| PCB-1016 (Aroclor 1016)  | ug/kg | <328         | 328             | 328 | 06/25/20 23:23 |            |
| PCB-1221 (Aroclor 1221)  | ug/kg | <328         | 328             | 328 | 06/25/20 23:23 |            |
| PCB-1232 (Aroclor 1232)  | ug/kg | <328         | 328             | 328 | 06/25/20 23:23 |            |
| PCB-1242 (Aroclor 1242)  | ug/kg | <328         | 328             | 328 | 06/25/20 23:23 |            |
| PCB-1248 (Aroclor 1248)  | ug/kg | <328         | 328             | 328 | 06/25/20 23:23 |            |
| PCB-1254 (Aroclor 1254)  | ug/kg | <328         | 328             | 328 | 06/25/20 23:23 |            |
| PCB-1260 (Aroclor 1260)  | ug/kg | <328         | 328             | 328 | 06/25/20 23:23 |            |
| PCB-1262 (Aroclor 1262)  | ug/kg | <328         | 328             | 328 | 06/25/20 23:23 | N2         |
| PCB-1268 (Aroclor 1268)  | ug/kg | <328         | 328             | 328 | 06/25/20 23:23 | N2         |
| Tetrachloro-m-xylene (S) | %     | 69           | 25-123          |     | 06/25/20 23:23 |            |

LABORATORY CONTROL SAMPLE: 2625308

| Parameter                | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| PCB-1016 (Aroclor 1016)  | ug/kg | 164         | <326       | 84        | 54-128       |            |
| PCB-1260 (Aroclor 1260)  | ug/kg | 164         | <326       | 76        | 36-118       |            |
| Tetrachloro-m-xylene (S) | %     |             |            | 76        | 25-123       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2625309 2625310

| Parameter                | Units | MS                 |             | MSD         |        | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual  |
|--------------------------|-------|--------------------|-------------|-------------|--------|----------|-----------|--------------|--------|---------|-------|
|                          |       | 50260681001 Result | Spike Conc. | Spike Conc. | Result |          |           |              |        |         |       |
| PCB-1016 (Aroclor 1016)  | ug/kg | ND                 | 166         | 167         | <32800 | <33000   | 585       | 659          | 10-145 | 20      | M0    |
| PCB-1260 (Aroclor 1260)  | ug/kg | 16.1 mg/kg         | 166         | 167         | <32800 | <33000   | -3130     | -2820        | 11-124 | 4       | 20 M0 |
| Tetrachloro-m-xylene (S) | %     |                    |             |             |        |          | 0         | 0            | 25-123 |         |       |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

QC Batch: 568613 Analysis Method: EPA 8270  
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave Short Spike  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50260268001, 50260268002, 50260268003, 50260268004, 50260268005, 50260268006, 50260268007, 50260268008, 50260268010, 50260268011

METHOD BLANK: 2623260 Matrix: Solid  
Associated Lab Samples: 50260268001, 50260268002, 50260268003, 50260268004, 50260268005, 50260268006, 50260268007, 50260268008, 50260268010, 50260268011

| Parameter                    | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|------------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2,4-Trichlorobenzene       | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 1,2-Diphenylhydrazine        | ug/kg | <1540        | 1540            | 1540 | 06/24/20 08:01 |            |
| 2,4,5-Trichlorophenol        | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 2,4,6-Trichlorophenol        | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 2,4-Dichlorophenol           | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 2,4-Dimethylphenol           | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 2,4-Dinitrophenol            | ug/kg | <1540        | 1540            | 1540 | 06/24/20 08:01 |            |
| 2,4-Dinitrotoluene           | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 2,6-Dinitrotoluene           | ug/kg | <85.4        | 318             | 85.4 | 06/24/20 08:01 |            |
| 2-Chloronaphthalene          | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 2-Chlorophenol               | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 2-Methylnaphthalene          | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 2-Methylphenol(o-Cresol)     | ug/kg | <965         | 965             | 965  | 06/24/20 08:01 |            |
| 2-Nitroaniline               | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 2-Nitrophenol                | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 3&4-Methylphenol(m&p Cresol) | ug/kg | <965         | 965             | 965  | 06/24/20 08:01 |            |
| 3-Nitroaniline               | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 4,6-Dinitro-2-methylphenol   | ug/kg | <801         | 801             | 801  | 06/24/20 08:01 |            |
| 4-Bromophenylphenyl ether    | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 4-Chloro-3-methylphenol      | ug/kg | <270         | 318             | 270  | 06/24/20 08:01 |            |
| 4-Chlorophenylphenyl ether   | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 4-Nitroaniline               | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 4-Nitrophenol                | ug/kg | <1540        | 1540            | 1540 | 06/24/20 08:01 |            |
| Acenaphthene                 | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Acenaphthylene               | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Anthracene                   | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Benzo(a)anthracene           | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Benzo(a)pyrene               | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Benzo(b)fluoranthene         | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Benzo(g,h,i)perylene         | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Benzo(k)fluoranthene         | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| bis(2-Chloroethoxy)methane   | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| bis(2-Chloroethyl) ether     | ug/kg | <154         | 318             | 154  | 06/24/20 08:01 |            |
| bis(2-Chloroisopropyl) ether | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| bis(2-Ethylhexyl)phthalate   | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Butylbenzylphthalate         | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Carbazole                    | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Chrysene                     | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Di-n-butylphthalate          | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

METHOD BLANK: 2623260 Matrix: Solid  
Associated Lab Samples: 50260268001, 50260268002, 50260268003, 50260268004, 50260268005, 50260268006, 50260268007, 50260268008, 50260268010, 50260268011

| Parameter                  | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|----------------------------|-------|--------------|-----------------|------|----------------|------------|
| Di-n-octylphthalate        | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Dibenz(a,h)anthracene      | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Dibenzofuran               | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Diethylphthalate           | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Dimethylphthalate          | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Fluoranthene               | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Fluorene                   | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Hexachloro-1,3-butadiene   | ug/kg | <92.6        | 318             | 92.6 | 06/24/20 08:01 |            |
| Hexachlorobenzene          | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Hexachlorocyclopentadiene  | ug/kg | <965         | 965             | 965  | 06/24/20 08:01 |            |
| Hexachloroethane           | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Indeno(1,2,3-cd)pyrene     | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Isophorone                 | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| N-Nitroso-di-n-propylamine | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| N-Nitrosodimethylamine     | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| N-Nitrosodiphenylamine     | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Naphthalene                | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Nitrobenzene               | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Pentachlorophenol          | ug/kg | <1420        | 1540            | 1420 | 06/24/20 08:01 |            |
| Phenanthrene               | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Phenol                     | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Pyrene                     | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 2,4,6-Tribromophenol (S)   | %     | 84           | 20-109          |      | 06/24/20 08:01 |            |
| 2-Fluorobiphenyl (S)       | %     | 81           | 36-91           |      | 06/24/20 08:01 |            |
| 2-Fluorophenol (S)         | %     | 96           | 24-95           |      | 06/24/20 08:01 | S3         |
| Nitrobenzene-d5 (S)        | %     | 59           | 26-96           |      | 06/24/20 08:01 |            |
| p-Terphenyl-d14 (S)        | %     | 107          | 27-117          |      | 06/24/20 08:01 |            |
| Phenol-d5 (S)              | %     | 82           | 32-93           |      | 06/24/20 08:01 |            |

LABORATORY CONTROL SAMPLE: 2623261

| Parameter               | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2,4-Trichlorobenzene  | ug/kg | 1570        | 1290       | 82        | 52-89        |            |
| 2,4-Dinitrotoluene      | ug/kg | 1570        | 1340       | 86        | 41-116       |            |
| 2-Chlorophenol          | ug/kg | 1570        | 1450       | 92        | 48-97        |            |
| 2-Methylnaphthalene     | ug/kg | 1570        | 1410       | 90        | 51-98        |            |
| 4-Chloro-3-methylphenol | ug/kg | 1570        | 1670       | 106       | 51-108       |            |
| 4-Nitrophenol           | ug/kg | 1570        | <1500      | 75        | 42-118       |            |
| Acenaphthene            | ug/kg | 1570        | 1270       | 81        | 58-94        |            |
| Acenaphthylene          | ug/kg | 1570        | 1240       | 79        | 56-94        |            |
| Anthracene              | ug/kg | 1570        | 1350       | 86        | 59-98        |            |
| Benzo(a)anthracene      | ug/kg | 1570        | 1390       | 89        | 60-103       |            |
| Benzo(a)pyrene          | ug/kg | 1570        | 1430       | 91        | 57-96        |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

LABORATORY CONTROL SAMPLE: 2623261

| Parameter                  | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Benzo(b)fluoranthene       | ug/kg | 1570        | 1500       | 96        | 57-104       |            |
| Benzo(g,h,i)perylene       | ug/kg | 1570        | 1260       | 80        | 56-103       |            |
| Benzo(k)fluoranthene       | ug/kg | 1570        | 1440       | 92        | 55-104       |            |
| Chrysene                   | ug/kg | 1570        | 1390       | 89        | 59-105       |            |
| Dibenz(a,h)anthracene      | ug/kg | 1570        | 1260       | 80        | 54-103       |            |
| Fluoranthene               | ug/kg | 1570        | 1440       | 92        | 57-107       |            |
| Fluorene                   | ug/kg | 1570        | 1100       | 70        | 58-101       |            |
| Indeno(1,2,3-cd)pyrene     | ug/kg | 1570        | 1250       | 80        | 54-104       |            |
| N-Nitroso-di-n-propylamine | ug/kg | 1570        | 1240       | 79        | 43-94        |            |
| Naphthalene                | ug/kg | 1570        | 1330       | 85        | 51-90        |            |
| Pentachlorophenol          | ug/kg | 1570        | <1380      | 71        | 24-118       |            |
| Phenanthrene               | ug/kg | 1570        | 1380       | 88        | 60-96        |            |
| Phenol                     | ug/kg | 1570        | 1330       | 85        | 44-101       |            |
| Pyrene                     | ug/kg | 1570        | 1360       | 87        | 59-108       |            |
| 2,4,6-Tribromophenol (S)   | %     |             |            | 86        | 20-109       |            |
| 2-Fluorobiphenyl (S)       | %     |             |            | 92        | 36-91        | S0         |
| 2-Fluorophenol (S)         | %     |             |            | 98        | 24-95        | S0         |
| Nitrobenzene-d5 (S)        | %     |             |            | 72        | 26-96        |            |
| p-Terphenyl-d14 (S)        | %     |             |            | 113       | 27-117       |            |
| Phenol-d5 (S)              | %     |             |            | 92        | 32-93        |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2623262 2623263

| Parameter                  | Units | MS                 |             | MSD         |       | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual  |
|----------------------------|-------|--------------------|-------------|-------------|-------|-----------|------------|----------|-----------|--------------|-----|---------|-------|
|                            |       | 50259803017 Result | Spike Conc. | Spike Conc. | Conc. |           |            |          |           |              |     |         |       |
| 1,2,4-Trichlorobenzene     | ug/kg | ND                 | 1920        | 1950        | 1950  | 1510      | 1780       | 79       | 91        | 30-96        | 16  | 20      |       |
| 2,4-Dinitrotoluene         | ug/kg | ND                 | 1920        | 1950        | 1950  | 1230      | 804        | 64       | 41        | 10-127       | 42  | 20      | R1    |
| 2-Chlorophenol             | ug/kg | ND                 | 1920        | 1950        | 1950  | 1620      | 1540       | 84       | 79        | 17-107       | 5   | 20      |       |
| 2-Methylnaphthalene        | ug/kg | ND                 | 1920        | 1950        | 1950  | 1980      | 1560       | 103      | 80        | 20-120       | 23  | 20      | R1    |
| 4-Chloro-3-methylphenol    | ug/kg | ND                 | 1920        | 1950        | 1950  | 2320      | 1760       | 121      | 90        | 22-117       | 28  | 20      | M1,R1 |
| 4-Nitrophenol              | ug/kg | ND                 | 1920        | 1950        | 1950  | <1850     | <1870      | 72       | 61        | 10-131       |     | 20      |       |
| Acenaphthene               | ug/kg | ND                 | 1920        | 1950        | 1950  | 1500      | 1530       | 78       | 78        | 19-115       | 2   | 20      |       |
| Acenaphthylene             | ug/kg | ND                 | 1920        | 1950        | 1950  | 1460      | 1530       | 76       | 78        | 11-122       | 5   | 20      |       |
| Anthracene                 | ug/kg | ND                 | 1920        | 1950        | 1950  | 1370      | 1460       | 71       | 75        | 10-133       | 6   | 20      |       |
| Benzo(a)anthracene         | ug/kg | ND                 | 1920        | 1950        | 1950  | 1290      | 1440       | 67       | 74        | 10-137       | 11  | 20      |       |
| Benzo(a)pyrene             | ug/kg | ND                 | 1920        | 1950        | 1950  | 1270      | 1410       | 66       | 72        | 10-132       | 11  | 20      |       |
| Benzo(b)fluoranthene       | ug/kg | ND                 | 1920        | 1950        | 1950  | 1410      | 1470       | 73       | 75        | 10-134       | 4   | 20      |       |
| Benzo(g,h,i)perylene       | ug/kg | ND                 | 1920        | 1950        | 1950  | 1130      | 1250       | 59       | 64        | 10-138       | 10  | 20      |       |
| Benzo(k)fluoranthene       | ug/kg | ND                 | 1920        | 1950        | 1950  | 1330      | 1280       | 69       | 66        | 10-140       | 4   | 20      |       |
| Chrysene                   | ug/kg | ND                 | 1920        | 1950        | 1950  | 1420      | 1500       | 74       | 77        | 10-150       | 5   | 20      |       |
| Dibenz(a,h)anthracene      | ug/kg | ND                 | 1920        | 1950        | 1950  | 1230      | 1320       | 64       | 67        | 10-126       | 7   | 20      |       |
| Fluoranthene               | ug/kg | ND                 | 1920        | 1950        | 1950  | 1280      | 1480       | 66       | 76        | 10-128       | 15  | 20      |       |
| Fluorene                   | ug/kg | ND                 | 1920        | 1950        | 1950  | 1570      | 1520       | 81       | 78        | 12-127       | 3   | 20      |       |
| Indeno(1,2,3-cd)pyrene     | ug/kg | ND                 | 1920        | 1950        | 1950  | 1130      | 1250       | 58       | 64        | 10-125       | 10  | 20      |       |
| N-Nitroso-di-n-propylamine | ug/kg | ND                 | 1920        | 1950        | 1950  | 1480      | 1990       | 77       | 102       | 23-101       | 29  | 20      | M1,R1 |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

| Parameter                | Units | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2623262 |                      | 2623263               |       | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | RPD | Max<br>RPD | Qual |
|--------------------------|-------|--|----------------------|-----------------------|-------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
|                          |       | 50259803017<br>Result                          | MS<br>Spike<br>Conc. | MSD<br>Spike<br>Conc. |       |              |               |             |              |                 |     |            |      |
| Naphthalene              | ug/kg | ND   | 1920                 | 1950                  | 1550  | 1410         | 81            | 72          | 12-120       | 9               | 20  |            |      |
| Pentachlorophenol        | ug/kg | ND   | 1920                 | 1950                  | <1700 | <1720        | 82            | 78          | 10-112       |                 | 20  |            |      |
| Phenanthrene             | ug/kg | ND   | 1920                 | 1950                  | 1430  | 1530         | 74            | 79          | 10-125       | 7               | 20  |            |      |
| Phenol                   | ug/kg | ND   | 1920                 | 1950                  | 1500  | 1500         | 78            | 77          | 22-105       | 0               | 20  |            |      |
| Pyrene                   | ug/kg | ND   | 1920                 | 1950                  | 1390  | 1750         | 72            | 90          | 10-146       | 23              | 20  | R1         |      |
| 2,4,6-Tribromophenol (S) | %     |  |                      |                       |       |              | 79            | 76          | 20-109       |                 |     |            |      |
| 2-Fluorobiphenyl (S)     | %     |  |                      |                       |       |              | 99            | 79          | 36-91        |                 |     | S0         |      |
| 2-Fluorophenol (S)       | %     |  |                      |                       |       |              | 81            | 82          | 24-95        |                 |     |            |      |
| Nitrobenzene-d5 (S)      | %     |  |                      |                       |       |              | 75            | 79          | 26-96        |                 |     |            |      |
| p-Terphenyl-d14 (S)      | %     |  |                      |                       |       |              | 85            | 87          | 27-117       |                 |     |            |      |
| Phenol-d5 (S)            | %     |  |                      |                       |       |              | 84            | 82          | 32-93        |                 |     |            |      |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

QC Batch: 569058 Analysis Method: EPA 8270  
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave Short Spike  
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50260268012, 50260268014, 50260268015

METHOD BLANK: 2625311 Matrix: Solid

Associated Lab Samples: 50260268012, 50260268014, 50260268015

| Parameter                    | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|------------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2,4-Trichlorobenzene       | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 1,2-Diphenylhydrazine        | ug/kg | <1600        | 1600            | 1600 | 06/25/20 14:54 |            |
| 2,4,5-Trichlorophenol        | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 2,4,6-Trichlorophenol        | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 2,4-Dichlorophenol           | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 2,4-Dimethylphenol           | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 2,4-Dinitrophenol            | ug/kg | <1600        | 1600            | 1600 | 06/25/20 14:54 |            |
| 2,4-Dinitrotoluene           | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 2,6-Dinitrotoluene           | ug/kg | <88.5        | 330             | 88.5 | 06/25/20 14:54 |            |
| 2-Chloronaphthalene          | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 2-Chlorophenol               | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 2-Methylnaphthalene          | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 2-Methylphenol(o-Cresol)     | ug/kg | <1000        | 1000            | 1000 | 06/25/20 14:54 |            |
| 2-Nitroaniline               | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 2-Nitrophenol                | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 3&4-Methylphenol(m&p Cresol) | ug/kg | <1000        | 1000            | 1000 | 06/25/20 14:54 |            |
| 3-Nitroaniline               | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 4,6-Dinitro-2-methylphenol   | ug/kg | <830         | 830             | 830  | 06/25/20 14:54 |            |
| 4-Bromophenylphenyl ether    | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 4-Chloro-3-methylphenol      | ug/kg | <280         | 330             | 280  | 06/25/20 14:54 |            |
| 4-Chlorophenylphenyl ether   | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 4-Nitroaniline               | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 4-Nitrophenol                | ug/kg | <1600        | 1600            | 1600 | 06/25/20 14:54 |            |
| Acenaphthene                 | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Acenaphthylene               | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Anthracene                   | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Benzo(a)anthracene           | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Benzo(a)pyrene               | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Benzo(b)fluoranthene         | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Benzo(g,h,i)perylene         | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Benzo(k)fluoranthene         | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| bis(2-Chloroethoxy)methane   | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| bis(2-Chloroethyl) ether     | ug/kg | <160         | 330             | 160  | 06/25/20 14:54 |            |
| bis(2-Chloroisopropyl) ether | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| bis(2-Ethylhexyl)phthalate   | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Butylbenzylphthalate         | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Carbazole                    | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Chrysene                     | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Di-n-butylphthalate          | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Di-n-octylphthalate          | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

METHOD BLANK: 2625311 Matrix: Solid  
Associated Lab Samples: 50260268012, 50260268014, 50260268015

| Parameter                  | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|----------------------------|-------|--------------|-----------------|------|----------------|------------|
| Dibenz(a,h)anthracene      | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Dibenzofuran               | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Diethylphthalate           | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Dimethylphthalate          | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Fluoranthene               | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Fluorene                   | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Hexachloro-1,3-butadiene   | ug/kg | <96.0        | 330             | 96.0 | 06/25/20 14:54 |            |
| Hexachlorobenzene          | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Hexachlorocyclopentadiene  | ug/kg | <1000        | 1000            | 1000 | 06/25/20 14:54 |            |
| Hexachloroethane           | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Indeno(1,2,3-cd)pyrene     | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Isophorone                 | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| N-Nitroso-di-n-propylamine | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| N-Nitrosodimethylamine     | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| N-Nitrosodiphenylamine     | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Naphthalene                | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Nitrobenzene               | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Pentachlorophenol          | ug/kg | <1470        | 1600            | 1470 | 06/25/20 14:54 |            |
| Phenanthrene               | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Phenol                     | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Pyrene                     | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 2,4,6-Tribromophenol (S)   | %     | 83           | 20-109          |      | 06/25/20 14:54 |            |
| 2-Fluorobiphenyl (S)       | %     | 110          | 36-91           |      | 06/25/20 14:54 | S3         |
| 2-Fluorophenol (S)         | %     | 95           | 24-95           |      | 06/25/20 14:54 |            |
| Nitrobenzene-d5 (S)        | %     | 53           | 26-96           |      | 06/25/20 14:54 |            |
| p-Terphenyl-d14 (S)        | %     | 111          | 27-117          |      | 06/25/20 14:54 |            |
| Phenol-d5 (S)              | %     | 93           | 32-93           |      | 06/25/20 14:54 |            |

LABORATORY CONTROL SAMPLE: 2625312

| Parameter               | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2,4-Trichlorobenzene  | ug/kg | 1670        | 1280       | 77        | 52-89        |            |
| 2,4-Dinitrotoluene      | ug/kg | 1670        | 1360       | 81        | 41-116       |            |
| 2-Chlorophenol          | ug/kg | 1670        | 1370       | 82        | 48-97        |            |
| 2-Methylnaphthalene     | ug/kg | 1670        | 1250       | 75        | 51-98        |            |
| 4-Chloro-3-methylphenol | ug/kg | 1670        | 1470       | 88        | 51-108       |            |
| 4-Nitrophenol           | ug/kg | 1670        | <1600      | 69        | 42-118       |            |
| Acenaphthene            | ug/kg | 1670        | 1330       | 80        | 58-94        |            |
| Acenaphthylene          | ug/kg | 1670        | 1310       | 79        | 56-94        |            |
| Anthracene              | ug/kg | 1670        | 1320       | 79        | 59-98        |            |
| Benzo(a)anthracene      | ug/kg | 1670        | 1400       | 84        | 60-103       |            |
| Benzo(a)pyrene          | ug/kg | 1670        | 1370       | 82        | 57-96        |            |
| Benzo(b)fluoranthene    | ug/kg | 1670        | 1490       | 89        | 57-104       |            |
| Benzo(g,h,i)perylene    | ug/kg | 1670        | 1220       | 73        | 56-103       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

LABORATORY CONTROL SAMPLE: 2625312

| Parameter                  | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Benzo(k)fluoranthene       | ug/kg | 1670        | 1320       | 79        | 55-104       |            |
| Chrysene                   | ug/kg | 1670        | 1320       | 79        | 59-105       |            |
| Dibenz(a,h)anthracene      | ug/kg | 1670        | 1240       | 75        | 54-103       |            |
| Fluoranthene               | ug/kg | 1670        | 1890       | 113       | 57-107       | L1         |
| Fluorene                   | ug/kg | 1670        | 1330       | 80        | 58-101       |            |
| Indeno(1,2,3-cd)pyrene     | ug/kg | 1670        | 1230       | 74        | 54-104       |            |
| N-Nitroso-di-n-propylamine | ug/kg | 1670        | 1300       | 78        | 43-94        |            |
| Naphthalene                | ug/kg | 1670        | 1250       | 75        | 51-90        |            |
| Pentachlorophenol          | ug/kg | 1670        | <1470      | 73        | 24-118       |            |
| Phenanthrene               | ug/kg | 1670        | 1350       | 81        | 60-96        |            |
| Phenol                     | ug/kg | 1670        | 1320       | 79        | 44-101       |            |
| Pyrene                     | ug/kg | 1670        | 1590       | 95        | 59-108       |            |
| 2,4,6-Tribromophenol (S)   | %     |             |            | 83        | 20-109       |            |
| 2-Fluorobiphenyl (S)       | %     |             |            | 94        | 36-91        | S0         |
| 2-Fluorophenol (S)         | %     |             |            | 90        | 24-95        |            |
| Nitrobenzene-d5 (S)        | %     |             |            | 74        | 26-96        |            |
| p-Terphenyl-d14 (S)        | %     |             |            | 150       | 27-117       | S0         |
| Phenol-d5 (S)              | %     |             |            | 84        | 32-93        |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2625313 2625314

| Parameter                  | Units | MS                 |             | MSD         |        | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual  |
|----------------------------|-------|--------------------|-------------|-------------|--------|-----------|------------|----------|-----------|--------------|-----|---------|-------|
|                            |       | 50259803013 Result | Spike Conc. | Spike Conc. | Result |           |            |          |           |              |     |         |       |
| 1,2,4-Trichlorobenzene     | ug/kg | ND                 | 1830        | 1860        | 1500   | 1510      | 81         | 81       | 30-96     |              | 1   | 20      |       |
| 2,4-Dinitrotoluene         | ug/kg | ND                 | 1830        | 1860        | 1530   | 1510      | 83         | 82       | 10-127    |              | 1   | 20      |       |
| 2-Chlorophenol             | ug/kg | ND                 | 1830        | 1860        | 1420   | 1510      | 77         | 81       | 17-107    |              | 6   | 20      |       |
| 2-Methylnaphthalene        | ug/kg | ND                 | 1830        | 1860        | 1260   | 1290      | 69         | 70       | 20-120    |              | 2   | 20      |       |
| 4-Chloro-3-methylphenol    | ug/kg | ND                 | 1830        | 1860        | 1550   | 1640      | 84         | 88       | 22-117    |              | 5   | 20      |       |
| 4-Nitrophenol              | ug/kg | ND                 | 1830        | 1860        | <1770  | <1780     | 75         | 75       | 10-131    |              |     | 20      |       |
| Acenaphthene               | ug/kg | ND                 | 1830        | 1860        | 1530   | 1490      | 83         | 80       | 19-115    |              | 3   | 20      |       |
| Acenaphthylene             | ug/kg | ND                 | 1830        | 1860        | 1450   | 1490      | 79         | 80       | 11-122    |              | 2   | 20      |       |
| Anthracene                 | ug/kg | ND                 | 1830        | 1860        | 1500   | 1460      | 82         | 78       | 10-133    |              | 3   | 20      |       |
| Benzo(a)anthracene         | ug/kg | ND                 | 1830        | 1860        | 1530   | 1540      | 83         | 83       | 10-137    |              | 1   | 20      |       |
| Benzo(a)pyrene             | ug/kg | ND                 | 1830        | 1860        | 1610   | 1520      | 88         | 82       | 10-132    |              | 6   | 20      |       |
| Benzo(b)fluoranthene       | ug/kg | ND                 | 1830        | 1860        | 2480   | 1690      | 135        | 91       | 10-134    |              | 38  | 20      | M1,R1 |
| Benzo(g,h,i)perylene       | ug/kg | ND                 | 1830        | 1860        | 1340   | 1380      | 73         | 75       | 10-138    |              | 3   | 20      |       |
| Benzo(k)fluoranthene       | ug/kg | ND                 | 1830        | 1860        | 2230   | 1520      | 121        | 82       | 10-140    |              | 38  | 20      | R1    |
| Chrysene                   | ug/kg | ND                 | 1830        | 1860        | 1500   | 1500      | 82         | 81       | 10-150    |              | 0   | 20      |       |
| Dibenz(a,h)anthracene      | ug/kg | ND                 | 1830        | 1860        | 1380   | 1380      | 75         | 74       | 10-126    |              | 0   | 20      |       |
| Fluoranthene               | ug/kg | ND                 | 1830        | 1860        | 2390   | 1510      | 130        | 81       | 10-128    |              | 45  | 20      | M0,R1 |
| Fluorene                   | ug/kg | ND                 | 1830        | 1860        | 1470   | 1550      | 80         | 84       | 12-127    |              | 5   | 20      |       |
| Indeno(1,2,3-cd)pyrene     | ug/kg | ND                 | 1830        | 1860        | 1360   | 1370      | 74         | 74       | 10-125    |              | 1   | 20      |       |
| N-Nitroso-di-n-propylamine | ug/kg | ND                 | 1830        | 1860        | 1740   | 1860      | 94         | 100      | 23-101    |              | 7   | 20      |       |
| Naphthalene                | ug/kg | ND                 | 1830        | 1860        | 1400   | 1420      | 76         | 77       | 12-120    |              | 2   | 20      |       |
| Pentachlorophenol          | ug/kg | ND                 | 1830        | 1860        | <1620  | <1640     | 76         | 71       | 10-112    |              |     | 20      |       |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

| Parameter                | Units | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2625313 |                      | 2625314               |      | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | RPD | Max<br>RPD | Qual |
|--------------------------|-------|--|----------------------|-----------------------|------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
|                          |       | 50259803013<br>Result                          | MS<br>Spike<br>Conc. | MSD<br>Spike<br>Conc. |      |              |               |             |              |                 |     |            |      |
| Phenanthrene             | ug/kg | ND   | 1830                 | 1860                  | 1510 | 1480         | 82            | 80          | 10-125       | 2               | 20  |            |      |
| Phenol                   | ug/kg | ND   | 1830                 | 1860                  | 1320 | 1350         | 72            | 73          | 22-105       | 2               | 20  |            |      |
| Pyrene                   | ug/kg | ND   | 1830                 | 1860                  | 1640 | 2360         | 89            | 127         | 10-146       | 36              | 20  | R1         |      |
| 2,4,6-Tribromophenol (S) | %     |  |                      |                       |      |              | 78            | 64          | 20-109       |                 |     |            |      |
| 2-Fluorobiphenyl (S)     | %     |  |                      |                       |      |              | 96            | 79          | 36-91        |                 |     | S0         |      |
| 2-Fluorophenol (S)       | %     |  |                      |                       |      |              | 75            | 77          | 24-95        |                 |     |            |      |
| Nitrobenzene-d5 (S)      | %     |  |                      |                       |      |              | 78            | 85          | 26-96        |                 |     |            |      |
| p-Terphenyl-d14 (S)      | %     |  |                      |                       |      |              | 161           | 95          | 27-117       |                 |     | S0         |      |
| Phenol-d5 (S)            | %     |  |                      |                       |      |              | 75            | 78          | 32-93        |                 |     |            |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

QC Batch: 569491 Analysis Method: EPA 8270  
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave Short Spike  
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50260268009, 50260268013

METHOD BLANK: 2627633 Matrix: Solid

Associated Lab Samples: 50260268009, 50260268013

| Parameter                    | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|------------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2,4-Trichlorobenzene       | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 1,2-Diphenylhydrazine        | ug/kg | <1580        | 1580            | 1580 | 06/29/20 22:54 |            |
| 2,4,5-Trichlorophenol        | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 2,4,6-Trichlorophenol        | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 2,4-Dichlorophenol           | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 2,4-Dimethylphenol           | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 2,4-Dinitrophenol            | ug/kg | <1580        | 1580            | 1580 | 06/29/20 22:54 |            |
| 2,4-Dinitrotoluene           | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 2,6-Dinitrotoluene           | ug/kg | <87.3        | 326             | 87.3 | 06/29/20 22:54 |            |
| 2-Chloronaphthalene          | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 2-Chlorophenol               | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 2-Methylnaphthalene          | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 2-Methylphenol(o-Cresol)     | ug/kg | <987         | 987             | 987  | 06/29/20 22:54 |            |
| 2-Nitroaniline               | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 2-Nitrophenol                | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 3&4-Methylphenol(m&p Cresol) | ug/kg | <987         | 987             | 987  | 06/29/20 22:54 |            |
| 3-Nitroaniline               | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 4,6-Dinitro-2-methylphenol   | ug/kg | <819         | 819             | 819  | 06/29/20 22:54 |            |
| 4-Bromophenylphenyl ether    | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 4-Chloro-3-methylphenol      | ug/kg | <276         | 326             | 276  | 06/29/20 22:54 |            |
| 4-Chlorophenylphenyl ether   | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 4-Nitroaniline               | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 4-Nitrophenol                | ug/kg | <1580        | 1580            | 1580 | 06/29/20 22:54 |            |
| Acenaphthene                 | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Acenaphthylene               | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Anthracene                   | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Benzo(a)anthracene           | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Benzo(a)pyrene               | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Benzo(b)fluoranthene         | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Benzo(g,h,i)perylene         | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Benzo(k)fluoranthene         | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| bis(2-Chloroethoxy)methane   | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| bis(2-Chloroethyl) ether     | ug/kg | <158         | 326             | 158  | 06/29/20 22:54 |            |
| bis(2-Chloroisopropyl) ether | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| bis(2-Ethylhexyl)phthalate   | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Butylbenzylphthalate         | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Carbazole                    | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Chrysene                     | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Di-n-butylphthalate          | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Di-n-octylphthalate          | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

METHOD BLANK: 2627633 Matrix: Solid

Associated Lab Samples: 50260268009, 50260268013

| Parameter                  | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|----------------------------|-------|--------------|-----------------|------|----------------|------------|
| Dibenz(a,h)anthracene      | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Dibenzofuran               | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Diethylphthalate           | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Dimethylphthalate          | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Fluoranthene               | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Fluorene                   | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Hexachloro-1,3-butadiene   | ug/kg | <94.7        | 326             | 94.7 | 06/29/20 22:54 |            |
| Hexachlorobenzene          | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Hexachlorocyclopentadiene  | ug/kg | <987         | 987             | 987  | 06/29/20 22:54 |            |
| Hexachloroethane           | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Indeno(1,2,3-cd)pyrene     | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Isophorone                 | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| N-Nitroso-di-n-propylamine | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| N-Nitrosodimethylamine     | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| N-Nitrosodiphenylamine     | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Naphthalene                | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Nitrobenzene               | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Pentachlorophenol          | ug/kg | <1450        | 1580            | 1450 | 06/29/20 22:54 |            |
| Phenanthrene               | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Phenol                     | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Pyrene                     | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 2,4,6-Tribromophenol (S)   | %     | 82           | 20-109          |      | 06/29/20 22:54 |            |
| 2-Fluorobiphenyl (S)       | %     | 79           | 36-91           |      | 06/29/20 22:54 |            |
| 2-Fluorophenol (S)         | %     | 84           | 24-95           |      | 06/29/20 22:54 |            |
| Nitrobenzene-d5 (S)        | %     | 77           | 26-96           |      | 06/29/20 22:54 |            |
| p-Terphenyl-d14 (S)        | %     | 108          | 27-117          |      | 06/29/20 22:54 |            |
| Phenol-d5 (S)              | %     | 84           | 32-93           |      | 06/29/20 22:54 |            |

LABORATORY CONTROL SAMPLE: 2627634

| Parameter               | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2,4-Trichlorobenzene  | ug/kg | 1590        | 1240       | 78        | 52-89        |            |
| 2,4-Dinitrotoluene      | ug/kg | 1590        | 1250       | 79        | 41-116       |            |
| 2-Chlorophenol          | ug/kg | 1590        | 1320       | 83        | 48-97        |            |
| 2-Methylnaphthalene     | ug/kg | 1590        | 1260       | 79        | 51-98        |            |
| 4-Chloro-3-methylphenol | ug/kg | 1590        | 1450       | 92        | 51-108       |            |
| 4-Nitrophenol           | ug/kg | 1590        | <1520      | 85        | 42-118       |            |
| Acenaphthene            | ug/kg | 1590        | 1310       | 83        | 58-94        |            |
| Acenaphthylene          | ug/kg | 1590        | 1320       | 83        | 56-94        |            |
| Anthracene              | ug/kg | 1590        | 1340       | 85        | 59-98        |            |
| Benzo(a)anthracene      | ug/kg | 1590        | 1340       | 85        | 60-103       |            |
| Benzo(a)pyrene          | ug/kg | 1590        | 1360       | 86        | 57-96        |            |
| Benzo(b)fluoranthene    | ug/kg | 1590        | 1480       | 93        | 57-104       |            |
| Benzo(g,h,i)perylene    | ug/kg | 1590        | 1390       | 88        | 56-103       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

LABORATORY CONTROL SAMPLE: 2627634

| Parameter                  | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Benzo(k)fluoranthene       | ug/kg | 1590        | 1250       | 79        | 55-104       |            |
| Chrysene                   | ug/kg | 1590        | 1250       | 79        | 59-105       |            |
| Dibenz(a,h)anthracene      | ug/kg | 1590        | 1430       | 90        | 54-103       |            |
| Fluoranthene               | ug/kg | 1590        | 1450       | 91        | 57-107       |            |
| Fluorene                   | ug/kg | 1590        | 1370       | 86        | 58-101       |            |
| Indeno(1,2,3-cd)pyrene     | ug/kg | 1590        | 1380       | 87        | 54-104       |            |
| N-Nitroso-di-n-propylamine | ug/kg | 1590        | 1430       | 90        | 43-94        |            |
| Naphthalene                | ug/kg | 1590        | 1220       | 77        | 51-90        |            |
| Pentachlorophenol          | ug/kg | 1590        | <1400      | 78        | 24-118       |            |
| Phenanthrene               | ug/kg | 1590        | 1370       | 86        | 60-96        |            |
| Phenol                     | ug/kg | 1590        | 1330       | 84        | 44-101       |            |
| Pyrene                     | ug/kg | 1590        | 1340       | 84        | 59-108       |            |
| 2,4,6-Tribromophenol (S)   | %     |             |            | 93        | 20-109       |            |
| 2-Fluorobiphenyl (S)       | %     |             |            | 77        | 36-91        |            |
| 2-Fluorophenol (S)         | %     |             |            | 83        | 24-95        |            |
| Nitrobenzene-d5 (S)        | %     |             |            | 83        | 26-96        |            |
| p-Terphenyl-d14 (S)        | %     |             |            | 110       | 27-117       |            |
| Phenol-d5 (S)              | %     |             |            | 87        | 32-93        |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2627635 2627636

| Parameter                  | Units | MS 50260268013 |             | MSD 2627635 |        | MS 2627636 |       | MSD 2627636 |        | % Rec Limits | Max RPD | Qual |
|----------------------------|-------|----------------|-------------|-------------|--------|------------|-------|-------------|--------|--------------|---------|------|
|                            |       | Result         | Spike Conc. | Spike Conc. | Result | Result     | % Rec | % Rec       |        |              |         |      |
| 1,2,4-Trichlorobenzene     | ug/kg | <422           | 2120        | 1990        | 1340   | 1230       | 63    | 62          | 30-96  | 9            | 20      |      |
| 2,4-Dinitrotoluene         | ug/kg | <422           | 2120        | 1990        | 1210   | 1140       | 57    | 58          | 10-127 | 6            | 20      |      |
| 2-Chlorophenol             | ug/kg | <422           | 2120        | 1990        | 1470   | 1360       | 70    | 68          | 17-107 | 8            | 20      |      |
| 2-Methylnaphthalene        | ug/kg | <422           | 2120        | 1990        | 1230   | 1150       | 58    | 58          | 20-120 | 7            | 20      |      |
| 4-Chloro-3-methylphenol    | ug/kg | <358           | 2120        | 1990        | 1450   | 1450       | 68    | 73          | 22-117 | 1            | 20      |      |
| 4-Nitrophenol              | ug/kg | <2050          | 2120        | 1990        | <2030  | <1910      | 67    | 68          | 10-131 |              | 20      |      |
| Acenaphthene               | ug/kg | <422           | 2120        | 1990        | 1160   | 1120       | 55    | 57          | 19-115 | 3            | 20      |      |
| Acenaphthylene             | ug/kg | <422           | 2120        | 1990        | 1210   | 1140       | 57    | 58          | 11-122 | 6            | 20      |      |
| Anthracene                 | ug/kg | <422           | 2120        | 1990        | 1110   | 1120       | 52    | 56          | 10-133 | 1            | 20      |      |
| Benzo(a)anthracene         | ug/kg | <422           | 2120        | 1990        | 1200   | 1110       | 57    | 56          | 10-137 | 8            | 20      |      |
| Benzo(a)pyrene             | ug/kg | <422           | 2120        | 1990        | 1110   | 998        | 53    | 50          | 10-132 | 11           | 20      |      |
| Benzo(b)fluoranthene       | ug/kg | <422           | 2120        | 1990        | 1180   | 958        | 55    | 48          | 10-134 | 20           | 20      |      |
| Benzo(g,h,i)perylene       | ug/kg | <422           | 2120        | 1990        | 1070   | 951        | 51    | 48          | 10-138 | 12           | 20      |      |
| Benzo(k)fluoranthene       | ug/kg | <422           | 2120        | 1990        | 1050   | 1070       | 49    | 54          | 10-140 | 2            | 20      |      |
| Chrysene                   | ug/kg | <422           | 2120        | 1990        | 1230   | 1080       | 58    | 54          | 10-150 | 13           | 20      |      |
| Dibenz(a,h)anthracene      | ug/kg | <422           | 2120        | 1990        | 1150   | 994        | 54    | 50          | 10-126 | 15           | 20      |      |
| Fluoranthene               | ug/kg | <422           | 2120        | 1990        | 1520   | 1390       | 54    | 52          | 10-128 | 9            | 20      |      |
| Fluorene                   | ug/kg | <422           | 2120        | 1990        | 1180   | 1160       | 56    | 58          | 12-127 | 2            | 20      |      |
| Indeno(1,2,3-cd)pyrene     | ug/kg | <422           | 2120        | 1990        | 1010   | 920        | 48    | 46          | 10-125 | 10           | 20      |      |
| N-Nitroso-di-n-propylamine | ug/kg | <422           | 2120        | 1990        | 1590   | 1480       | 75    | 74          | 23-101 | 8            | 20      |      |
| Naphthalene                | ug/kg | <422           | 2120        | 1990        | 1340   | 1220       | 63    | 61          | 12-120 | 10           | 20      |      |
| Pentachlorophenol          | ug/kg | <1880          | 2120        | 1990        | <1870  | <1750      | 55    | 60          | 10-112 |              | 20      |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

| Parameter                | Units | 2627635               |                      | 2627636               |              | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | RPD | Max<br>RPD | Qual |
|--------------------------|-------|-----------------------|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
|                          |       | 50260268013<br>Result | MS<br>Spike<br>Conc. | MSD<br>Spike<br>Conc. | MS<br>Result |              |               |             |              |                 |     |            |      |
| Phenanthrene             | ug/kg | <422                  | 2120                 | 1990                  | 1340         | 1320         | 53            | 55          | 10-125       | 1               | 20  |            |      |
| Phenol                   | ug/kg | <422                  | 2120                 | 1990                  | 1420         | 1380         | 67            | 70          | 22-105       | 2               | 20  |            |      |
| Pyrene                   | ug/kg | <422                  | 2120                 | 1990                  | 1440         | 1330         | 54            | 52          | 10-146       | 8               | 20  |            |      |
| 2,4,6-Tribromophenol (S) | %     |                       |                      |                       |              |              | 68            | 71          | 20-109       |                 |     |            |      |
| 2-Fluorobiphenyl (S)     | %     |                       |                      |                       |              |              | 59            | 59          | 36-91        |                 |     |            |      |
| 2-Fluorophenol (S)       | %     |                       |                      |                       |              |              | 69            | 73          | 24-95        |                 |     |            |      |
| Nitrobenzene-d5 (S)      | %     |                       |                      |                       |              |              | 68            | 67          | 26-96        |                 |     |            |      |
| p-Terphenyl-d14 (S)      | %     |                       |                      |                       |              |              | 67            | 69          | 27-117       |                 |     |            |      |
| Phenol-d5 (S)            | %     |                       |                      |                       |              |              | 70            | 73          | 32-93        |                 |     |            |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

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|                  |          |                       |   |
|------------------|----------|-----------------------|---|
| QC Batch:        | 568712   | Analysis Method:      | SM 2540G                                |
| QC Batch Method: | SM 2540G | Analysis Description: | Dry Weight/Percent Moisture             |
|                  |          | Laboratory:           | Pace Analytical Services - Indianapolis |

Associated Lab Samples: 50260268007, 50260268008, 50260268009, 50260268010, 50260268011, 50260268012, 50260268013, 50260268014, 50260268015

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SAMPLE DUPLICATE: 2623658

| Parameter        | Units | 50260268007<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 11.8                  | 12.6          | 7   | 5          | R1         |

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SAMPLE DUPLICATE: 2623659

| Parameter        | Units | 50260285007<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 60.7                  | 58.2          | 4   | 5          |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

QC Batch: 570566 Analysis Method: EPA 7196A  
QC Batch Method: EPA 3060A Analysis Description: 7196 Chromium, Hexavalent  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50260268005

METHOD BLANK: 2632291 Matrix: Solid  
Associated Lab Samples: 50260268005

| Parameter            | Units | Blank Result | Reporting Limit | MDL | Analyzed       | Qualifiers |
|----------------------|-------|--------------|-----------------|-----|----------------|------------|
| Chromium, Hexavalent | mg/kg | <2.0         | 2.0             | 2.0 | 07/07/20 16:14 |            |

LABORATORY CONTROL SAMPLE: 2632292

| Parameter            | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|-------------|------------|-----------|--------------|------------|
| Chromium, Hexavalent | mg/kg | 969         | 898        | 93        | 80-120       |            |

MATRIX SPIKE SAMPLE: 2632294

| Parameter            | Units | 50261280004 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Chromium, Hexavalent | mg/kg | ND                 | 1090        | 208       | 19       | 75-125       | 1d,M0      |

MATRIX SPIKE SAMPLE: 2632295

| Parameter            | Units | 50261280004 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Chromium, Hexavalent | mg/kg | ND                 | 42.3        | <10.6     | -1       | 75-125       | 1d,M0      |

SAMPLE DUPLICATE: 2632293

| Parameter            | Units | 50260268005 Result | Dup Result | RPD | Max RPD | Qualifiers |
|----------------------|-------|--------------------|------------|-----|---------|------------|
| Chromium, Hexavalent | mg/kg | <2.1               | <2.1       |     | 20      |            |

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## QUALIFIERS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.  
ND - Not Detected at or above adjusted reporting limit.  
TNTC - Too Numerous To Count  
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
MDL - Adjusted Method Detection Limit.  
PQL - Practical Quantitation Limit.  
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.  
S - Surrogate  
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.  
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.  
LCS(D) - Laboratory Control Sample (Duplicate)  
MS(D) - Matrix Spike (Duplicate)  
DUP - Sample Duplicate  
RPD - Relative Percent Difference  
NC - Not Calculable.  
SG - Silica Gel - Clean-Up  
U - Indicates the compound was analyzed for, but not detected.  
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.  
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

1d Redox (202 mV) and pH (7.85) values indicate a naturally reducing matrix. This accounts for the poor recovery values on the sample per method Eh/pH phase diagram.  
D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.  
ED Due to the extract's physical characteristics, the analysis was performed at dilution.  
L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.  
L5 LCS recovery exceeded QC limits. Batch accepted based on matrix spike recovery within LCS limits.  
M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.  
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.  
M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.  
N The reported TIC has an 85% or higher match on a mass spectral library search.  
N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.  
P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.  
R1 RPD value was outside control limits.  
S0 Surrogate recovery outside laboratory control limits.  
S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.  
S4 Surrogate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

| Lab ID      | Sample ID         | QC Batch Method         | QC Batch | Analytical Method | Analytical Batch |
|-------------|-------------------|-------------------------|----------|-------------------|------------------|
| 50260268001 | MW-122 (4-5')     | EPA 8015 Alcohol-Glycol | 568440   |                   |                  |
| 50260268002 | MW-123 (4-5')     | EPA 8015 Alcohol-Glycol | 568440   |                   |                  |
| 50260268003 | MW-124 (4-5')     | EPA 8015 Alcohol-Glycol | 568440   |                   |                  |
| 50260268004 | MW-125 (4-5')     | EPA 8015 Alcohol-Glycol | 568440   |                   |                  |
| 50260268005 | MW-126 (4-5')     | EPA 8015 Alcohol-Glycol | 568440   |                   |                  |
| 50260268006 | MW-126 (7.5-8.5') | EPA 8015 Alcohol-Glycol | 568440   |                   |                  |
| 50260268007 | MW-127 (6-7')     | EPA 8015 Alcohol-Glycol | 568440   |                   |                  |
| 50260268008 | MW-127 (10-11')   | EPA 8015 Alcohol-Glycol | 568440   |                   |                  |
| 50260268009 | MW-128 (4-5')     | EPA 8015 Alcohol-Glycol | 568440   |                   |                  |
| 50260268010 | MW-128 (8-9')     | EPA 8015 Alcohol-Glycol | 568440   |                   |                  |
| 50260268011 | MW-129 (3-4')     | EPA 8015 Alcohol-Glycol | 568440   |                   |                  |
| 50260268012 | MW-130 (4-5')     | EPA 8015 Alcohol-Glycol | 568440   |                   |                  |
| 50260268013 | MW-131 (2-3')     | EPA 8015 Alcohol-Glycol | 568440   |                   |                  |
| 50260268014 | Dup. 1            | EPA 8015 Alcohol-Glycol | 568440   |                   |                  |
| 50260268015 | Dup. 2            | EPA 8015 Alcohol-Glycol | 568440   |                   |                  |
| 50260268002 | MW-123 (4-5')     | EPA 3546                | 569057   | EPA 8082          | 569164           |
| 50260268004 | MW-125 (4-5')     | EPA 3546                | 569057   | EPA 8082          | 569164           |
| 50260268008 | MW-127 (10-11')   | EPA 3546                | 569057   | EPA 8082          | 569164           |
| 50260268009 | MW-128 (4-5')     | EPA 3546                | 569057   | EPA 8082          | 569164           |
| 50260268012 | MW-130 (4-5')     | EPA 3546                | 569057   | EPA 8082          | 569164           |
| 50260268001 | MW-122 (4-5')     | EPA 3050                | 568327   | EPA 6010          | 569711           |
| 50260268002 | MW-123 (4-5')     | EPA 3050                | 568327   | EPA 6010          | 569711           |
| 50260268003 | MW-124 (4-5')     | EPA 3050                | 568327   | EPA 6010          | 569711           |
| 50260268004 | MW-125 (4-5')     | EPA 3050                | 568327   | EPA 6010          | 569711           |
| 50260268005 | MW-126 (4-5')     | EPA 3050                | 568327   | EPA 6010          | 569711           |
| 50260268006 | MW-126 (7.5-8.5') | EPA 3050                | 568327   | EPA 6010          | 569711           |
| 50260268007 | MW-127 (6-7')     | EPA 3050                | 568327   | EPA 6010          | 569711           |
| 50260268008 | MW-127 (10-11')   | EPA 3050                | 568327   | EPA 6010          | 569711           |
| 50260268009 | MW-128 (4-5')     | EPA 3050                | 568327   | EPA 6010          | 569711           |
| 50260268010 | MW-128 (8-9')     | EPA 3050                | 568327   | EPA 6010          | 569711           |
| 50260268011 | MW-129 (3-4')     | EPA 3050                | 568327   | EPA 6010          | 569711           |
| 50260268012 | MW-130 (4-5')     | EPA 3050                | 568327   | EPA 6010          | 569711           |
| 50260268013 | MW-131 (2-3')     | EPA 3050                | 568327   | EPA 6010          | 569711           |
| 50260268014 | Dup. 1            | EPA 3050                | 568327   | EPA 6010          | 569711           |
| 50260268015 | Dup. 2            | EPA 3050                | 568327   | EPA 6010          | 569711           |
| 50260268001 | MW-122 (4-5')     | EPA 3050B               | 568592   | EPA 6020          | 569073           |
| 50260268002 | MW-123 (4-5')     | EPA 3050B               | 568592   | EPA 6020          | 569073           |
| 50260268003 | MW-124 (4-5')     | EPA 3050B               | 568592   | EPA 6020          | 569073           |
| 50260268004 | MW-125 (4-5')     | EPA 3050B               | 568592   | EPA 6020          | 569073           |
| 50260268005 | MW-126 (4-5')     | EPA 3050B               | 568592   | EPA 6020          | 569073           |
| 50260268006 | MW-126 (7.5-8.5') | EPA 3050B               | 568592   | EPA 6020          | 569073           |
| 50260268007 | MW-127 (6-7')     | EPA 3050B               | 568592   | EPA 6020          | 569073           |
| 50260268008 | MW-127 (10-11')   | EPA 3050B               | 568592   | EPA 6020          | 569073           |
| 50260268009 | MW-128 (4-5')     | EPA 3050B               | 568592   | EPA 6020          | 569073           |
| 50260268010 | MW-128 (8-9')     | EPA 3050B               | 568592   | EPA 6020          | 569073           |
| 50260268011 | MW-129 (3-4')     | EPA 3050B               | 568592   | EPA 6020          | 569073           |
| 50260268012 | MW-130 (4-5')     | EPA 3050B               | 568592   | EPA 6020          | 569073           |

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

| Lab ID      | Sample ID         | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-------------------|-----------------|----------|-------------------|------------------|
| 50260268013 | MW-131 (2-3')     | EPA 3050B       | 568592   | EPA 6020          | 569073           |
| 50260268014 | Dup. 1            | EPA 3050B       | 568592   | EPA 6020          | 569073           |
| 50260268015 | Dup. 2            | EPA 3050B       | 568592   | EPA 6020          | 569073           |
| 50260268001 | MW-122 (4-5')     | EPA 7471        | 569181   | EPA 7471          | 569347           |
| 50260268002 | MW-123 (4-5')     | EPA 7471        | 569181   | EPA 7471          | 569347           |
| 50260268003 | MW-124 (4-5')     | EPA 7471        | 569181   | EPA 7471          | 569347           |
| 50260268004 | MW-125 (4-5')     | EPA 7471        | 569181   | EPA 7471          | 569347           |
| 50260268005 | MW-126 (4-5')     | EPA 7471        | 569181   | EPA 7471          | 569347           |
| 50260268006 | MW-126 (7.5-8.5') | EPA 7471        | 569181   | EPA 7471          | 569347           |
| 50260268007 | MW-127 (6-7')     | EPA 7471        | 569181   | EPA 7471          | 569347           |
| 50260268008 | MW-127 (10-11')   | EPA 7471        | 569181   | EPA 7471          | 569347           |
| 50260268009 | MW-128 (4-5')     | EPA 7471        | 569181   | EPA 7471          | 569347           |
| 50260268010 | MW-128 (8-9')     | EPA 7471        | 569181   | EPA 7471          | 569347           |
| 50260268011 | MW-129 (3-4')     | EPA 7471        | 569181   | EPA 7471          | 569347           |
| 50260268012 | MW-130 (4-5')     | EPA 7471        | 569181   | EPA 7471          | 569347           |
| 50260268013 | MW-131 (2-3')     | EPA 7471        | 569181   | EPA 7471          | 569347           |
| 50260268014 | Dup. 1            | EPA 7471        | 569181   | EPA 7471          | 569347           |
| 50260268015 | Dup. 2            | EPA 7471        | 569181   | EPA 7471          | 569347           |
| 50260268001 | MW-122 (4-5')     | EPA 3546        | 568613   | EPA 8270          | 568826           |
| 50260268002 | MW-123 (4-5')     | EPA 3546        | 568613   | EPA 8270          | 568826           |
| 50260268003 | MW-124 (4-5')     | EPA 3546        | 568613   | EPA 8270          | 568826           |
| 50260268004 | MW-125 (4-5')     | EPA 3546        | 568613   | EPA 8270          | 568826           |
| 50260268005 | MW-126 (4-5')     | EPA 3546        | 568613   | EPA 8270          | 568826           |
| 50260268006 | MW-126 (7.5-8.5') | EPA 3546        | 568613   | EPA 8270          | 568826           |
| 50260268007 | MW-127 (6-7')     | EPA 3546        | 568613   | EPA 8270          | 568826           |
| 50260268008 | MW-127 (10-11')   | EPA 3546        | 568613   | EPA 8270          | 568826           |
| 50260268009 | MW-128 (4-5')     | EPA 3546        | 569491   | EPA 8270          | 569827           |
| 50260268010 | MW-128 (8-9')     | EPA 3546        | 568613   | EPA 8270          | 568826           |
| 50260268011 | MW-129 (3-4')     | EPA 3546        | 568613   | EPA 8270          | 568826           |
| 50260268012 | MW-130 (4-5')     | EPA 3546        | 569058   | EPA 8270          | 569235           |
| 50260268013 | MW-131 (2-3')     | EPA 3546        | 569491   | EPA 8270          | 569827           |
| 50260268014 | Dup. 1            | EPA 3546        | 569058   | EPA 8270          | 569235           |
| 50260268015 | Dup. 2            | EPA 3546        | 569058   | EPA 8270          | 569235           |
| 50260268001 | MW-122 (4-5')     | EPA 8260        | 568681   |                   |                  |
| 50260268002 | MW-123 (4-5')     | EPA 8260        | 568681   |                   |                  |
| 50260268003 | MW-124 (4-5')     | EPA 8260        | 568681   |                   |                  |
| 50260268004 | MW-125 (4-5')     | EPA 8260        | 568681   |                   |                  |
| 50260268005 | MW-126 (4-5')     | EPA 8260        | 568681   |                   |                  |
| 50260268006 | MW-126 (7.5-8.5') | EPA 8260        | 568681   |                   |                  |
| 50260268007 | MW-127 (6-7')     | EPA 8260        | 568681   |                   |                  |
| 50260268008 | MW-127 (10-11')   | EPA 8260        | 568681   |                   |                  |
| 50260268009 | MW-128 (4-5')     | EPA 8260        | 568681   |                   |                  |
| 50260268010 | MW-128 (8-9')     | EPA 8260        | 568681   |                   |                  |
| 50260268011 | MW-129 (3-4')     | EPA 8260        | 568681   |                   |                  |
| 50260268012 | MW-130 (4-5')     | EPA 8260        | 568681   |                   |                  |

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

| Lab ID      | Sample ID         | QC Batch Method                | QC Batch | Analytical Method | Analytical Batch |
|-------------|-------------------|--------------------------------|----------|-------------------|------------------|
| 50260268013 | MW-131 (2-3')     | EPA 8260                       | 568681   |                   |                  |
| 50260268014 | Dup. 1            | EPA 8260                       | 568681   |                   |                  |
| 50260268015 | Dup. 2            | EPA 8260                       | 568681   |                   |                  |
| 50260268016 | Trip Blank        | EPA 8260                       | 568681   |                   |                  |
| 50260268017 | Trip Blank        | EPA 8260                       | 568681   |                   |                  |
| 50260268018 | Field Blank       | EPA 8260                       | 568677   |                   |                  |
| 50260268001 | MW-122 (4-5')     | SM 2540G                       | 568683   |                   |                  |
| 50260268002 | MW-123 (4-5')     | SM 2540G                       | 568683   |                   |                  |
| 50260268003 | MW-124 (4-5')     | SM 2540G                       | 568683   |                   |                  |
| 50260268004 | MW-125 (4-5')     | SM 2540G                       | 568683   |                   |                  |
| 50260268005 | MW-126 (4-5')     | SM 2540G                       | 568683   |                   |                  |
| 50260268006 | MW-126 (7.5-8.5') | SM 2540G                       | 568683   |                   |                  |
| 50260268007 | MW-127 (6-7')     | SM 2540G                       | 568712   |                   |                  |
| 50260268008 | MW-127 (10-11')   | SM 2540G                       | 568712   |                   |                  |
| 50260268009 | MW-128 (4-5')     | SM 2540G                       | 568712   |                   |                  |
| 50260268010 | MW-128 (8-9')     | SM 2540G                       | 568712   |                   |                  |
| 50260268011 | MW-129 (3-4')     | SM 2540G                       | 568712   |                   |                  |
| 50260268012 | MW-130 (4-5')     | SM 2540G                       | 568712   |                   |                  |
| 50260268013 | MW-131 (2-3')     | SM 2540G                       | 568712   |                   |                  |
| 50260268014 | Dup. 1            | SM 2540G                       | 568712   |                   |                  |
| 50260268015 | Dup. 2            | SM 2540G                       | 568712   |                   |                  |
| 50260268005 | MW-126 (4-5')     | EPA 3060A                      | 570566   | EPA 7196A         | 570880           |
| 50260268005 | MW-126 (4-5')     | Trivalent Chromium Calculation | 571475   |                   |                  |

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# Sample Conditions Upon Receipt Form (SCUR)

|   |  |  |  |  |           |
|---|--|--|--|--|-----------|
| Date/Time: <u>8-18-20 1600</u>  |  | Evaluated by: <u>AWS</u>                       |  | <b>Affix Workorder/Login Label Here or List Pace Workorder Number</b><br><br><span style="font-size: 2em; font-weight: bold;">5026 0268</span> |           |
| Client: <u>DETROIT AXLE-ATC</u>   |  |  |  |  |           |
| Project Manager: <u>BSH</u>   |  | Profile ID:                                    |  |  |           |
| Rush TAT Requested: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> Due Date:   |  |  |  |  |           |
| Lab Notified of Rush or Short Holds: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>  |  |  | Non Conformance Form Required: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> |  |           |
| Samples Received Via: FedEx <input checked="" type="checkbox"/> UPS <input type="checkbox"/> Client <input type="checkbox"/> Pace Courier <input type="checkbox"/> Other: _____                                   |  |  |  |  | Comments: |
| Custody Seals Present and Intact:   |  | YES  | NO   | <input checked="" type="radio"/> N/A   |           |
| Received Sample Information Form(s): Drinking Waters Only   |  | YES  | NO   | <input checked="" type="radio"/> N/A   |           |
| USDA Regulated Soils: (AL, AR, CA, FL, GA, ID, LA, MS, NM, NY, NC, OK, OR, SC, TN, TX, WA or Puerto Rico)   |  | YES  | NO   | <input checked="" type="radio"/> N/A   |           |
| Short Holds Present (< 72 Hours):   |  | YES  | NO <input checked="" type="checkbox"/>   |  |           |
| Samples Received in Hold:   |  | YES <input checked="" type="checkbox"/>        | NO   |  |           |
| Custody Signatures Present:   |  | YES <input checked="" type="checkbox"/>        | NO   |  |           |
| Collector Signature Present:  |  | YES <input checked="" type="checkbox"/>        | NO   |  |           |
| Packing Material Used:  |  | YES <input checked="" type="checkbox"/>        | NO   |  |           |
| Samples Collected Today and On Ice:   |  | YES  | NO   | <input checked="" type="radio"/> N/A   |           |
| IR Gun #: <input checked="" type="radio"/> 281  |  | Digital Thermometer #: 282 283                 |  |  |           |
| Ice Type: WET Bagged / WET Loose <input checked="" type="checkbox"/> BLUE NONE  |  | 1. Cooler Temp Upon Receipt: <u>2.5/3.0</u> °C |  |  |           |
| Ice Location: TOP BOTTOM MIDDLE DISPERSED <input checked="" type="checkbox"/>   |  | Temp should be 0-6°C (Initial/Corrected)       |  |  |           |
| Temp Blank Received:  |  | YES <input checked="" type="checkbox"/>        | NO   |  |           |
| Containers Intact:  |  | YES <input checked="" type="checkbox"/>        | NO   |  |           |
| Correct Containers:   |  | YES <input checked="" type="checkbox"/>        | NO   |  |           |
| Sufficient Volume:  |  | YES <input checked="" type="checkbox"/>        | NO   |  |           |
| Sample pH Acceptable: All containers needing preservation are found to be in compliance with EPA recommendation Exceptions are VOA, coliform, LLHg, O&G, or any container with a septum cap or preserved with HCl |  | YES  | NO   | <input checked="" type="radio"/> N/A   |           |
| Residual Chlorine Absent: (SVOC/Pest 625, PCB 608, Total/Amenable/Available Cyanide)  |  | YES  | NO   | <input checked="" type="radio"/> N/A   |           |
| VOA Headspace Acceptable (<6mm):  |  | YES  | NO   | <input checked="" type="radio"/> N/A   |           |
| Trip Blank Received: HCl MeOH TSP OTHER   |  | YES  | NO <input checked="" type="checkbox"/>   |  |           |
| Comments:<br><br><span style="font-size: 1.5em; font-weight: bold;">N/A</span>  |  | 2. Cooler Temp Upon Receipt: _____ °C          |  |  |           |
|   |  | 3. Cooler Temp Upon Receipt: _____ °C          |  |  |           |
|   |  | 4. Cooler Temp Upon Receipt: _____ °C          |  |  |           |
|   |  |  |  |  |           |

July 10, 2020

Ryann Scott  
ATC Group Services - Novi  
46555 Humboldt Drive  
Suite 100  
Novi, MI 48377

RE: Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

Dear Ryann Scott:

Enclosed are the analytical results for sample(s) received by the laboratory on June 18, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

Revised Report. This report replaces the original dated 063020, it has been revised to add Chromium Speciation to sample -005 and 8270 TICs to sample -008, per client request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Brian Hall  
brian.hall@pacelabs.com  
(616)975-4500  
Project Manager

Enclosures

cc: AP c/o Abigail Jardine, ATC Group Services  
Michael Hauswirth, ATC Group Services  
Joshua Schuyler, ATC Group Services - Novi



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

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### **Pace Analytical Services Indianapolis**

7726 Moller Road, Indianapolis, IN 46268  
Illinois Accreditation #: 200074  
Indiana Drinking Water Laboratory #: C-49-06  
Kansas/TNI Certification #: E-10177  
Kentucky UST Agency Interest #: 80226  
Kentucky WW Laboratory ID #: 98019  
Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065  
Oklahoma Laboratory #: 9204  
Texas Certification #: T104704355  
West Virginia Certification #: 330  
Wisconsin Laboratory #: 999788130  
USDA Soil Permit #: P330-19-00257

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

| Lab ID      | Sample ID         | Matrix | Date Collected | Date Received  |
|-------------|-------------------|--------|----------------|----------------|
| 50260268001 | MW-122 (4-5')     | Solid  | 06/15/20 13:37 | 06/18/20 09:25 |
| 50260268002 | MW-123 (4-5')     | Solid  | 06/15/20 13:15 | 06/18/20 09:25 |
| 50260268003 | MW-124 (4-5')     | Solid  | 06/15/20 12:40 | 06/18/20 09:25 |
| 50260268004 | MW-125 (4-5')     | Solid  | 06/16/20 11:00 | 06/18/20 09:25 |
| 50260268005 | MW-126 (4-5')     | Solid  | 06/15/20 10:20 | 06/18/20 09:25 |
| 50260268006 | MW-126 (7.5-8.5') | Solid  | 06/15/20 10:30 | 06/18/20 09:25 |
| 50260268007 | MW-127 (6-7')     | Solid  | 06/15/20 11:30 | 06/18/20 09:25 |
| 50260268008 | MW-127 (10-11')   | Solid  | 06/15/20 13:00 | 06/18/20 09:25 |
| 50260268009 | MW-128 (4-5')     | Solid  | 06/15/20 09:45 | 06/18/20 09:25 |
| 50260268010 | MW-128 (8-9')     | Solid  | 06/15/20 09:47 | 06/18/20 09:25 |
| 50260268011 | MW-129 (3-4')     | Solid  | 06/15/20 11:56 | 06/18/20 09:25 |
| 50260268012 | MW-130 (4-5')     | Solid  | 06/15/20 14:22 | 06/18/20 09:25 |
| 50260268013 | MW-131 (2-3')     | Solid  | 06/15/20 13:55 | 06/18/20 09:25 |
| 50260268014 | Dup. 1            | Solid  | 06/15/20 12:00 | 06/18/20 09:25 |
| 50260268015 | Dup. 2            | Solid  | 06/16/20 12:00 | 06/18/20 09:25 |
| 50260268016 | Trip Blank        | Solid  | 06/15/20 14:29 | 06/18/20 09:25 |
| 50260268017 | Trip Blank        | Solid  | 06/15/20 14:30 | 06/18/20 09:25 |
| 50260268018 | Field Blank       | Solid  | 06/15/20 12:00 | 06/18/20 09:25 |

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

| Lab ID      | Sample ID     | Method                  | Analysts | Analytes Reported |
|-------------|---------------|-------------------------|----------|-------------------|
| 50260268001 | MW-122 (4-5') | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |               | EPA 6010                | KJE      | 19                |
|             |               | EPA 6020                | DMT      | 7                 |
|             |               | EPA 7471                | ILP      | 1                 |
|             |               | EPA 8270                | JCM      | 67                |
|             |               | EPA 8260                | JPV      | 75                |
|             |               | SM 2540G                | RM1      | 1                 |
| 50260268002 | MW-123 (4-5') | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |               | EPA 8082                | RID      | 10                |
|             |               | EPA 6010                | KJE      | 19                |
|             |               | EPA 6020                | DMT      | 7                 |
|             |               | EPA 7471                | ILP      | 1                 |
|             |               | EPA 8270                | JCM      | 67                |
|             |               | EPA 8260                | JPV      | 75                |
| 50260268003 | MW-124 (4-5') | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |               | EPA 6010                | KJE      | 19                |
|             |               | EPA 6020                | DMT      | 7                 |
|             |               | EPA 7471                | ILP      | 1                 |
|             |               | EPA 8270                | JCM      | 67                |
|             |               | EPA 8260                | JPV      | 75                |
|             |               | SM 2540G                | RM1      | 1                 |
| 50260268004 | MW-125 (4-5') | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |               | EPA 8082                | RID      | 10                |
|             |               | EPA 6010                | KJE      | 19                |
|             |               | EPA 6020                | DMT      | 7                 |
|             |               | EPA 7471                | ILP      | 1                 |
|             |               | EPA 8270                | JCM      | 67                |
|             |               | EPA 8260                | JPV      | 75                |
| 50260268005 | MW-126 (4-5') | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |               | EPA 6010                | KJE      | 19                |
|             |               | EPA 6020                | DMT      | 7                 |
|             |               | EPA 7471                | ILP      | 1                 |
|             |               | EPA 8270                | JCM      | 67                |
|             |               | EPA 8260                | JPV      | 75                |
|             |               | SM 2540G                | RM1      | 1                 |

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### SAMPLE ANALYTE COUNT

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

| Lab ID      | Sample ID         | Method                         | Analysts | Analytes Reported |
|-------------|-------------------|--------------------------------|----------|-------------------|
| 50260268006 | MW-126 (7.5-8.5') | EPA 7196A                      | DAS      | 1                 |
|             |                   | Trivalent Chromium Calculation | DAC1     | 1                 |
|             |                   | EPA 8015 Alcohol-Glycol        | CPH      | 3                 |
|             |                   | EPA 6010                       | KJE      | 19                |
|             |                   | EPA 6020                       | DMT      | 7                 |
|             |                   | EPA 7471                       | ILP      | 1                 |
|             |                   | EPA 8270                       | JCM      | 67                |
| 50260268007 | MW-127 (6-7')     | EPA 8260                       | JPV      | 75                |
|             |                   | SM 2540G                       | RM1      | 1                 |
|             |                   | EPA 8015 Alcohol-Glycol        | CPH      | 3                 |
|             |                   | EPA 6010                       | KJE      | 19                |
|             |                   | EPA 6020                       | DMT      | 7                 |
|             |                   | EPA 7471                       | ILP      | 1                 |
|             |                   | EPA 8270                       | JCM      | 67                |
| 50260268008 | MW-127 (10-11')   | EPA 8260                       | JPV      | 75                |
|             |                   | SM 2540G                       | RM1      | 1                 |
|             |                   | EPA 8015 Alcohol-Glycol        | CPH      | 3                 |
|             |                   | EPA 8082                       | RID      | 10                |
|             |                   | EPA 6010                       | KJE      | 19                |
|             |                   | EPA 6020                       | DMT      | 7                 |
|             |                   | EPA 7471                       | ILP      | 1                 |
| 50260268009 | MW-128 (4-5')     | EPA 8270                       | JCM      | 97                |
|             |                   | EPA 8260                       | JPV      | 75                |
|             |                   | SM 2540G                       | RM1      | 1                 |
|             |                   | EPA 8015 Alcohol-Glycol        | CPH      | 3                 |
|             |                   | EPA 8082                       | RID      | 10                |
|             |                   | EPA 6010                       | KJE      | 19                |
|             |                   | EPA 6020                       | DMT      | 7                 |
| 50260268010 | MW-128 (8-9')     | EPA 7471                       | ILP      | 1                 |
|             |                   | EPA 8270                       | JCM      | 67                |
|             |                   | EPA 8260                       | JPV      | 75                |
|             |                   | SM 2540G                       | RM1      | 1                 |
|             |                   | EPA 8015 Alcohol-Glycol        | CPH      | 3                 |
|             |                   | EPA 6010                       | KJE      | 19                |
|             |                   | EPA 6020                       | DMT      | 7                 |
| 50260268010 | MW-128 (8-9')     | EPA 7471                       | ILP      | 1                 |
|             |                   | EPA 8270                       | JCM      | 67                |
|             |                   | EPA 8270                       | JCM      | 67                |

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### SAMPLE ANALYTE COUNT

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

| Lab ID      | Sample ID     | Method                  | Analysts | Analytes Reported |
|-------------|---------------|-------------------------|----------|-------------------|
| 50260268011 | MW-129 (3-4') | EPA 8260                | JPV      | 75                |
|             |               | SM 2540G                | RM1      | 1                 |
|             |               | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |               | EPA 6010                | KJE      | 19                |
|             |               | EPA 6020                | DMT      | 7                 |
|             |               | EPA 7471                | ILP      | 1                 |
|             |               | EPA 8270                | JCM      | 67                |
| 50260268012 | MW-130 (4-5') | EPA 8260                | JPV      | 75                |
|             |               | SM 2540G                | RM1      | 1                 |
|             |               | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |               | EPA 8082                | RID      | 10                |
|             |               | EPA 6010                | KJE      | 19                |
|             |               | EPA 6020                | DMT      | 7                 |
|             |               | EPA 7471                | ILP      | 1                 |
| 50260268013 | MW-131 (2-3') | EPA 8270                | JCM      | 67                |
|             |               | EPA 8260                | JPV      | 75                |
|             |               | SM 2540G                | RM1      | 1                 |
|             |               | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |               | EPA 6010                | KJE      | 19                |
|             |               | EPA 6020                | DMT      | 7                 |
|             |               | EPA 7471                | ILP      | 1                 |
| 50260268014 | Dup. 1        | EPA 8270                | JCM      | 67                |
|             |               | EPA 8260                | JPV      | 75                |
|             |               | SM 2540G                | RM1      | 1                 |
|             |               | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |               | EPA 6010                | KJE      | 19                |
|             |               | EPA 6020                | DMT      | 7                 |
|             |               | EPA 7471                | ILP      | 1                 |
| 50260268015 | Dup. 2        | EPA 8270                | JCM      | 67                |
|             |               | EPA 8260                | JPV      | 75                |
|             |               | SM 2540G                | RM1      | 1                 |
|             |               | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |               | EPA 6010                | KJE      | 19                |
|             |               | EPA 6020                | DMT      | 7                 |
|             |               | EPA 7471                | ILP      | 1                 |

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### SAMPLE ANALYTE COUNT

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

| Lab ID      | Sample ID   | Method   | Analysts | Analytes Reported |
|-------------|-------------|----------|----------|-------------------|
|             |             | SM 2540G | RM1      | 1                 |
| 50260268016 | Trip Blank  | EPA 8260 | JPV      | 75                |
| 50260268017 | Trip Blank  | EPA 8260 | JPV      | 75                |
| 50260268018 | Field Blank | EPA 8260 | JPV      | 75                |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

**Sample: MW-122 (4-5)**      **Lab ID: 50260268001**      Collected: 06/15/20 13:37      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL    | DF  | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|--------|-----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                     |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| n-Butanol  | <4830   | ug/kg | 4830   | 4830   | 1   |                | 06/22/20 15:32 | 71-36-3   |      |
| Ethanol  | <2750   | ug/kg | 2750   | 2750   | 1   |                | 06/22/20 15:32 | 64-17-5   |      |
| Methanol   | <4830   | ug/kg | 4830   | 4830   | 1   |                | 06/22/20 15:32 | 67-56-1   |      |
| <b>6010 MET ICP</b>  |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050  |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| Antimony   | <1010   | ug/kg | 1010   | 1010   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7440-36-0 |      |
| Arsenic  | 2510    | ug/kg | 2020   | 2020   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7440-38-2 |      |
| Barium   | 48100   | ug/kg | 1010   | 1010   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7440-39-3 |      |
| Beryllium  | <506    | ug/kg | 506    | 506    | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7440-41-7 |      |
| Boron  | <8090   | ug/kg | 8090   | 8090   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7440-42-8 |      |
| Calcium  | 8920000 | ug/kg | 50600  | 6710   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7440-70-2 |      |
| Chromium   | 8690    | ug/kg | 2020   | 2020   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7440-47-3 |      |
| Copper   | 6720    | ug/kg | 1010   | 1010   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7440-50-8 |      |
| Iron   | 5840000 | ug/kg | 25300  | 7690   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7439-89-6 |      |
| Lead   | 50700   | ug/kg | 10100  | 10100  | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7439-92-1 |      |
| Magnesium  | 2440000 | ug/kg | 25300  | 4050   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7439-95-4 |      |
| Manganese  | 89200   | ug/kg | 1010   | 1010   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7439-96-5 |      |
| Molybdenum   | <1010   | ug/kg | 1010   | 1010   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7439-98-7 |      |
| Nickel   | 4940    | ug/kg | 1010   | 1010   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7440-02-0 |      |
| Potassium  | 238000  | ug/kg | 50600  | 4950   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7440-09-7 |      |
| Sodium   | 31000   | ug/kg | 25300  | 13800  | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7440-23-5 |      |
| Strontium  | 12200   | ug/kg | 5060   | 5060   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7440-24-6 |      |
| Vanadium   | 14200   | ug/kg | 1010   | 1010   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7440-62-2 |      |
| Zinc   | 48800   | ug/kg | 1010   | 1010   | 1   | 06/26/20 14:44 | 06/29/20 11:52 | 7440-66-6 |      |
| <b>6020 MET ICPMS</b>  |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| Aluminum   | 4330000 | ug/kg | 109000 | 109000 | 100 | 06/24/20 09:22 | 06/30/20 00:18 | 7429-90-5 |      |
| Cadmium  | <218    | ug/kg | 218    | 218    | 1   | 06/24/20 09:22 | 06/25/20 13:27 | 7440-43-9 |      |
| Cobalt   | 1400    | ug/kg | 544    | 544    | 1   | 06/24/20 09:22 | 06/25/20 13:27 | 7440-48-4 |      |
| Selenium   | 262     | ug/kg | 218    | 218    | 1   | 06/24/20 09:22 | 06/25/20 13:27 | 7782-49-2 |      |
| Silver   | 157     | ug/kg | 109    | 109    | 1   | 06/24/20 09:22 | 06/25/20 13:27 | 7440-22-4 |      |
| Thallium   | <544    | ug/kg | 544    | 544    | 1   | 06/24/20 09:22 | 06/25/20 13:27 | 7440-28-0 |      |
| Titanium   | 237000  | ug/kg | 10900  | 2890   | 100 | 06/24/20 09:22 | 06/30/20 00:18 | 7440-32-6 | N2   |
| <b>7471 Mercury</b>  |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 7471      Preparation Method: EPA 7471  |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| Mercury  | 1110    | ug/kg | 111    | 87.4   | 1   | 06/26/20 02:49 | 06/26/20 07:06 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                       |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 8270      Preparation Method: EPA 3546  |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| Acenaphthene   | <352    | ug/kg | 352    | 352    | 1   | 06/23/20 12:30 | 06/24/20 11:48 | 83-32-9   |      |
| Acenaphthylene   | <352    | ug/kg | 352    | 352    | 1   | 06/23/20 12:30 | 06/24/20 11:48 | 208-96-8  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-122 (4-5)**      **Lab ID: 50260268001**      Collected: 06/15/20 13:37      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                 |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |      |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |      |      |    |                |                |           |      |
| Anthracene   | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 120-12-7  |      |
| Benzo(a)anthracene                                       | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 56-55-3   |      |
| Benzo(a)pyrene   | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 50-32-8   |      |
| Benzo(b)fluoranthene                                     | 427     | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 205-99-2  |      |
| Benzo(g,h,i)perylene                                     | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 191-24-2  |      |
| Benzo(k)fluoranthene                                     | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 207-08-9  |      |
| 4-Bromophenylphenyl ether                                | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 101-55-3  |      |
| Butylbenzylphthalate                                     | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 85-68-7   |      |
| Carbazole  | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                  | <299    | ug/kg | 352  | 299  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                               | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                 | <171    | ug/kg | 352  | 171  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                             | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 108-60-1  |      |
| 2-Chloronaphthalene                                      | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 91-58-7   |      |
| 2-Chlorophenol   | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                               | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 7005-72-3 |      |
| Chrysene   | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                    | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 53-70-3   |      |
| Dibenzofuran   | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 132-64-9  |      |
| 2,4-Dichlorophenol                                       | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 120-83-2  |      |
| Diethylphthalate   | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 84-66-2   |      |
| 2,4-Dimethylphenol                                       | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 105-67-9  |      |
| Dimethylphthalate  | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 131-11-3  |      |
| Di-n-butylphthalate                                      | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                               | <885    | ug/kg | 885  | 885  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 534-52-1  |      |
| 2,4-Dinitrophenol  | <1710   | ug/kg | 1710 | 1710 | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 51-28-5   |      |
| 2,4-Dinitrotoluene                                       | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 121-14-2  |      |
| 2,6-Dinitrotoluene                                       | <94.4   | ug/kg | 352  | 94.4 | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 606-20-2  |      |
| Di-n-octylphthalate                                      | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                    | <1710   | ug/kg | 1710 | 1710 | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate                               | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 117-81-7  |      |
| Fluoranthene   | 689     | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 206-44-0  |      |
| Fluorene   | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                 | <102    | ug/kg | 352  | 102  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 87-68-3   |      |
| Hexachlorobenzene  | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                | <1070   | ug/kg | 1070 | 1070 | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 77-47-4   |      |
| Hexachloroethane   | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                   | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 193-39-5  |      |
| Isophorone   | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 78-59-1   |      |
| 2-Methylnaphthalene                                      | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                 | <1070   | ug/kg | 1070 | 1070 | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                             | <1070   | ug/kg | 1070 | 1070 | 1  | 06/23/20 12:30 | 06/24/20 11:48 |           |      |
| Naphthalene  | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 91-20-3   |      |
| 2-Nitroaniline   | <352    | ug/kg | 352  | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 88-74-4   |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-122 (4-5)**      **Lab ID: 50260268001**      Collected: 06/15/20 13:37      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                 |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |        |      |    |                |                |           |      |
| 3-Nitroaniline   | <352    | ug/kg | 352    | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 99-09-2   |      |
| 4-Nitroaniline   | <352    | ug/kg | 352    | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 100-01-6  |      |
| Nitrobenzene   | <352    | ug/kg | 352    | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 98-95-3   |      |
| 2-Nitrophenol  | <352    | ug/kg | 352    | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 88-75-5   |      |
| 4-Nitrophenol  | <1710   | ug/kg | 1710   | 1710 | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 100-02-7  |      |
| N-Nitrosodimethylamine                                   | <352    | ug/kg | 352    | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                               | <352    | ug/kg | 352    | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                   | <352    | ug/kg | 352    | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 86-30-6   |      |
| Pentachlorophenol  | <1570   | ug/kg | 1710   | 1570 | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 87-86-5   |      |
| Phenanthrene   | <352    | ug/kg | 352    | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 85-01-8   |      |
| Phenol   | <352    | ug/kg | 352    | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 108-95-2  |      |
| Pyrene   | 586     | ug/kg | 352    | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                   | <352    | ug/kg | 352    | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                    | <352    | ug/kg | 352    | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                    | <352    | ug/kg | 352    | 352  | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)                                      | 62      | %     | 26-96  |      | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 4165-60-0 |      |
| Phenol-d5 (S)  | 74      | %     | 32-93  |      | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 4165-62-2 |      |
| 2-Fluorophenol (S)                                       | 79      | %     | 24-95  |      | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                 | 78      | %     | 20-109 |      | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 118-79-6  |      |
| 2-Fluorobiphenyl (S)                                     | 74      | %     | 36-91  |      | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 321-60-8  |      |
| p-Terphenyl-d14 (S)                                      | 88      | %     | 27-117 |      | 1  | 06/23/20 12:30 | 06/24/20 11:48 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                           |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                              |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |        |      |    |                |                |           |      |
| Acetone  | <1050   | ug/kg | 1050   | 1050 | 1  |                | 06/24/20 03:37 | 67-64-1   |      |
| Acrylonitrile  | <105    | ug/kg | 105    | 105  | 1  |                | 06/24/20 03:37 | 107-13-1  |      |
| tert-Amylmethyl ether                                    | <264    | ug/kg | 264    | 264  | 1  |                | 06/24/20 03:37 | 994-05-8  | N2   |
| Benzene  | <52.7   | ug/kg | 52.7   | 52.7 | 1  |                | 06/24/20 03:37 | 71-43-2   |      |
| Bromobenzene   | <105    | ug/kg | 105    | 105  | 1  |                | 06/24/20 03:37 | 108-86-1  |      |
| Bromochloromethane                                       | <26.4   | ug/kg | 52.7   | 26.4 | 1  |                | 06/24/20 03:37 | 74-97-5   |      |
| Bromodichloromethane                                     | <105    | ug/kg | 105    | 105  | 1  |                | 06/24/20 03:37 | 75-27-4   |      |
| Bromoform  | <105    | ug/kg | 105    | 105  | 1  |                | 06/24/20 03:37 | 75-25-2   |      |
| Bromomethane   | <211    | ug/kg | 211    | 211  | 1  |                | 06/24/20 03:37 | 74-83-9   |      |
| 2-Butanone (MEK)   | <791    | ug/kg | 791    | 791  | 1  |                | 06/24/20 03:37 | 78-93-3   |      |
| tert-Butyl Alcohol                                       | <2640   | ug/kg | 2640   | 2640 | 1  |                | 06/24/20 03:37 | 75-65-0   |      |
| n-Butylbenzene   | <52.7   | ug/kg | 52.7   | 52.7 | 1  |                | 06/24/20 03:37 | 104-51-8  |      |
| sec-Butylbenzene   | <52.7   | ug/kg | 52.7   | 52.7 | 1  |                | 06/24/20 03:37 | 135-98-8  |      |
| tert-Butylbenzene  | <52.7   | ug/kg | 52.7   | 52.7 | 1  |                | 06/24/20 03:37 | 98-06-6   |      |
| Carbon disulfide   | <264    | ug/kg | 264    | 264  | 1  |                | 06/24/20 03:37 | 75-15-0   |      |
| Carbon tetrachloride                                     | <52.7   | ug/kg | 52.7   | 52.7 | 1  |                | 06/24/20 03:37 | 56-23-5   |      |
| Chlorobenzene  | <52.7   | ug/kg | 52.7   | 52.7 | 1  |                | 06/24/20 03:37 | 108-90-7  |      |
| Chloroethane   | <264    | ug/kg | 264    | 264  | 1  |                | 06/24/20 03:37 | 75-00-3   |      |
| Chloroform   | <52.7   | ug/kg | 52.7   | 52.7 | 1  |                | 06/24/20 03:37 | 67-66-3   |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-122 (4-5)**      **Lab ID: 50260268001**      Collected: 06/15/20 13:37      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Chloromethane                  | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 03:37 | 74-87-3    |      |
| Cyclohexane                    | <527    | ug/kg  | 527  | 527  | 1  |          | 06/24/20 03:37 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 03:37 | 96-12-8    |      |
| Dibromochloromethane           | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 03:37 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 03:37 | 106-93-4   |      |
| Dibromomethane                 | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 03:37 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 03:37 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 03:37 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 03:37 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <105    | ug/kg  | 1050 | 105  | 1  |          | 06/24/20 03:37 | 110-57-6   |      |
| Dichlorodifluoromethane        | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 03:37 | 75-71-8    |      |
| 1,1-Dichloroethane             | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 03:37 | 75-34-3    |      |
| 1,2-Dichloroethane             | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 03:37 | 107-06-2   |      |
| 1,1-Dichloroethene             | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 03:37 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 03:37 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 03:37 | 156-60-5   |      |
| 1,2-Dichloropropane            | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 03:37 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 03:37 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 03:37 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <211    | ug/kg  | 211  | 211  | 1  |          | 06/24/20 03:37 | 60-29-7    |      |
| Diisopropyl ether              | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 03:37 | 108-20-3   | N2   |
| Ethylbenzene                   | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 03:37 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 03:37 | 637-92-3   | N2   |
| Hexachloroethane               | <316    | ug/kg  | 316  | 316  | 1  |          | 06/24/20 03:37 | 67-72-1    | N2   |
| 2-Hexanone                     | <2640   | ug/kg  | 2640 | 2640 | 1  |          | 06/24/20 03:37 | 591-78-6   |      |
| Iodomethane                    | <105    | ug/kg  | 1050 | 105  | 1  |          | 06/24/20 03:37 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 03:37 | 98-82-8    |      |
| p-Isopropyltoluene             | <26.4   | ug/kg  | 52.7 | 26.4 | 1  |          | 06/24/20 03:37 | 99-87-6    |      |
| Methylene Chloride             | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 03:37 | 75-09-2    |      |
| 2-Methylnaphthalene            | <348    | ug/kg  | 348  | 348  | 1  |          | 06/24/20 03:37 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)    | <2640   | ug/kg  | 2640 | 2640 | 1  |          | 06/24/20 03:37 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 03:37 | 1634-04-4  |      |
| Naphthalene                    | <348    | ug/kg  | 348  | 348  | 1  |          | 06/24/20 03:37 | 91-20-3    |      |
| n-Propylbenzene                | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 03:37 | 103-65-1   |      |
| Styrene                        | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 03:37 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 03:37 | 630-20-6   |      |
| 1,1,1,2,2-Tetrachloroethane    | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 03:37 | 79-34-5    |      |
| Tetrachloroethene              | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 03:37 | 127-18-4   |      |
| Tetrahydrofuran                | <1050   | ug/kg  | 1050 | 1050 | 1  |          | 06/24/20 03:37 | 109-99-9   | N2   |
| Toluene                        | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 03:37 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene         | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 03:37 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene         | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 03:37 | 120-82-1   |      |
| 1,1,1-Trichloroethane          | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 03:37 | 71-55-6    |      |
| 1,1,2-Trichloroethane          | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 03:37 | 79-00-5    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-122 (4-5)**      **Lab ID: 50260268001**      Collected: 06/15/20 13:37      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|---------|--|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Trichloroethene                | <52.7   | ug/kg  | 52.7   | 52.7 | 1  |          | 06/24/20 03:37 | 79-01-6     |      |
| Trichlorofluoromethane         | <105    | ug/kg  | 105    | 105  | 1  |          | 06/24/20 03:37 | 75-69-4     |      |
| 1,2,3-Trichloropropane         | <105    | ug/kg  | 105    | 105  | 1  |          | 06/24/20 03:37 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene         | <264    | ug/kg  | 264    | 264  | 1  |          | 06/24/20 03:37 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene         | <105    | ug/kg  | 105    | 105  | 1  |          | 06/24/20 03:37 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | <105    | ug/kg  | 105    | 105  | 1  |          | 06/24/20 03:37 | 108-67-8    |      |
| Vinyl chloride                 | <42.2   | ug/kg  | 42.2   | 42.2 | 1  |          | 06/24/20 03:37 | 75-01-4     |      |
| m&p-Xylene                     | <26.4   | ug/kg  | 52.7   | 26.4 | 1  |          | 06/24/20 03:37 | 179601-23-1 |      |
| o-Xylene                       | <26.4   | ug/kg  | 52.7   | 26.4 | 1  |          | 06/24/20 03:37 | 95-47-6     |      |
| <b>Surrogates</b>              |         |  |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)       | 103     | %  | 62-137 |      | 1  |          | 06/24/20 03:37 | 1868-53-7   |      |
| Toluene-d8 (S)                 | 99      | %  | 64-139 |      | 1  |          | 06/24/20 03:37 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)       | 104     | %  | 60-142 |      | 1  |          | 06/24/20 03:37 | 460-00-4    |      |
| <b>Percent Moisture</b>        |         | Analytical Method: SM 2540G<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Percent Moisture               | 9.0     | %  | 0.10   | 0.10 | 1  |          | 06/23/20 13:45 |             |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-123 (4-5)**      **Lab ID: 50260268002**      Collected: 06/15/20 13:15      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL    | DF  | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|--------|--------|-----|----------------|----------------|------------|------|
| <b>8015M Alcohols in solids</b>                                |         |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                     |         |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |            |      |
| n-Butanol  | <4700   | ug/kg | 4700   | 4700   | 1   |                | 06/22/20 16:06 | 71-36-3    |      |
| Ethanol  | <2670   | ug/kg | 2670   | 2670   | 1   |                | 06/22/20 16:06 | 64-17-5    |      |
| Methanol   | <4700   | ug/kg | 4700   | 4700   | 1   |                | 06/22/20 16:06 | 67-56-1    |      |
| <b>8082 GCS PCB Solids</b>                                     |         |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 8082      Preparation Method: EPA 3546  |         |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |            |      |
| PCB-1016 (Aroclor 1016)  | <350    | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 18:06 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)  | <350    | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 18:06 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)  | <350    | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 18:06 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)  | <350    | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 18:06 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)  | <350    | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 18:06 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)  | <350    | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 18:06 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)  | <350    | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 18:06 | 11096-82-5 |      |
| PCB-1262 (Aroclor 1262)  | <350    | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 18:06 | 37324-23-5 | N2   |
| PCB-1268 (Aroclor 1268)  | <350    | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 18:06 | 11100-14-4 | N2   |
| <b>Surrogates</b>  |         |       |        |        |     |                |                |            |      |
| Tetrachloro-m-xylene (S)                                       | 69      | %     | 25-123 |        | 1   | 06/24/20 21:50 | 06/25/20 18:06 | 877-09-8   |      |
| <b>6010 MET ICP</b>  |         |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050  |         |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |            |      |
| Antimony   | <929    | ug/kg | 929    | 929    | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7440-36-0  |      |
| Arsenic  | 2530    | ug/kg | 1860   | 1860   | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7440-38-2  |      |
| Barium   | 12700   | ug/kg | 929    | 929    | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7440-39-3  |      |
| Beryllium  | <464    | ug/kg | 464    | 464    | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7440-41-7  |      |
| Boron  | <7430   | ug/kg | 7430   | 7430   | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7440-42-8  |      |
| Calcium  | 703000  | ug/kg | 46400  | 6160   | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7440-70-2  |      |
| Chromium   | 7230    | ug/kg | 1860   | 1860   | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7440-47-3  |      |
| Copper   | 2000    | ug/kg | 929    | 929    | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7440-50-8  |      |
| Iron   | 6680000 | ug/kg | 23200  | 7060   | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7439-89-6  |      |
| Lead   | <9290   | ug/kg | 9290   | 9290   | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7439-92-1  |      |
| Magnesium  | 834000  | ug/kg | 23200  | 3720   | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7439-95-4  |      |
| Manganese  | 126000  | ug/kg | 929    | 929    | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7439-96-5  |      |
| Molybdenum   | <929    | ug/kg | 929    | 929    | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7439-98-7  |      |
| Nickel   | 3880    | ug/kg | 929    | 929    | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7440-02-0  |      |
| Potassium  | 144000  | ug/kg | 46400  | 4540   | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7440-09-7  |      |
| Sodium   | 28100   | ug/kg | 23200  | 12600  | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7440-23-5  |      |
| Strontium  | <4640   | ug/kg | 4640   | 4640   | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7440-24-6  |      |
| Vanadium   | 13300   | ug/kg | 929    | 929    | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7440-62-2  |      |
| Zinc   | 7510    | ug/kg | 929    | 929    | 1   | 06/26/20 14:44 | 06/29/20 11:55 | 7440-66-6  |      |
| <b>6020 MET ICPMS</b>  |         |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B |         |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |            |      |
| Aluminum   | 2870000 | ug/kg | 101000 | 101000 | 100 | 06/24/20 09:22 | 06/30/20 00:41 | 7429-90-5  |      |
| Cadmium  | <203    | ug/kg | 203    | 203    | 1   | 06/24/20 09:22 | 06/25/20 14:22 | 7440-43-9  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-123 (4-5)**      **Lab ID: 50260268002**      Collected: 06/15/20 13:15      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL   | MDL  | DF  | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|-------|------|-----|----------------|----------------|-----------|------|
| <b>6020 MET ICPMS</b>  |         |       |       |      |     |                |                |           |      |
| Analytical Method: EPA 6020    Preparation Method: EPA 3050B |         |       |       |      |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                      |         |       |       |      |     |                |                |           |      |
| Cobalt   | 1720    | ug/kg | 506   | 506  | 1   | 06/24/20 09:22 | 06/25/20 14:22 | 7440-48-4 |      |
| Selenium   | 228     | ug/kg | 203   | 203  | 1   | 06/24/20 09:22 | 06/25/20 14:22 | 7782-49-2 |      |
| Silver   | <101    | ug/kg | 101   | 101  | 1   | 06/24/20 09:22 | 06/25/20 14:22 | 7440-22-4 |      |
| Thallium   | <506    | ug/kg | 506   | 506  | 1   | 06/24/20 09:22 | 06/25/20 14:22 | 7440-28-0 |      |
| Titanium   | 228000  | ug/kg | 10100 | 2690 | 100 | 06/24/20 09:22 | 06/30/20 00:41 | 7440-32-6 | N2   |
| <b>7471 Mercury</b>  |         |       |       |      |     |                |                |           |      |
| Analytical Method: EPA 7471    Preparation Method: EPA 7471  |         |       |       |      |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                      |         |       |       |      |     |                |                |           |      |
| Mercury  | <85.3   | ug/kg | 108   | 85.3 | 1   | 06/26/20 02:49 | 06/26/20 07:08 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                     |         |       |       |      |     |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546  |         |       |       |      |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                      |         |       |       |      |     |                |                |           |      |
| Acenaphthene   | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 83-32-9   |      |
| Acenaphthylene   | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 208-96-8  |      |
| Anthracene   | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 120-12-7  |      |
| Benzo(a)anthracene   | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 56-55-3   |      |
| Benzo(a)pyrene   | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 50-32-8   |      |
| Benzo(b)fluoranthene   | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 205-99-2  |      |
| Benzo(g,h,i)perylene   | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 191-24-2  |      |
| Benzo(k)fluoranthene   | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 207-08-9  |      |
| 4-Bromophenylphenyl ether                                    | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 101-55-3  |      |
| Butylbenzylphthalate   | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 85-68-7   |      |
| Carbazole  | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                      | <292    | ug/kg | 344   | 292  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                                   | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                     | <167    | ug/kg | 344   | 167  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                                 | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 108-60-1  |      |
| 2-Chloronaphthalene  | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 91-58-7   |      |
| 2-Chlorophenol   | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                                   | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 7005-72-3 |      |
| Chrysene   | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 218-01-9  |      |
| Dibenz(a,h)anthracene  | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 53-70-3   |      |
| Dibenzofuran   | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 132-64-9  |      |
| 2,4-Dichlorophenol   | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 120-83-2  |      |
| Diethylphthalate   | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 84-66-2   |      |
| 2,4-Dimethylphenol   | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 105-67-9  |      |
| Dimethylphthalate  | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 131-11-3  |      |
| Di-n-butylphthalate  | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                                   | <864    | ug/kg | 864   | 864  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 534-52-1  |      |
| 2,4-Dinitrophenol  | <1670   | ug/kg | 1670  | 1670 | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 51-28-5   |      |
| 2,4-Dinitrotoluene   | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 121-14-2  |      |
| 2,6-Dinitrotoluene   | <92.2   | ug/kg | 344   | 92.2 | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 606-20-2  |      |
| Di-n-octylphthalate  | <344    | ug/kg | 344   | 344  | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 117-84-0  |      |
| 1,2-Diphenylhydrazine  | <1670   | ug/kg | 1670  | 1670 | 1   | 06/23/20 12:30 | 06/24/20 12:05 | 122-66-7  |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

Sample: MW-123 (4-5) Lab ID: 50260268002 Collected: 06/15/20 13:15 Received: 06/18/20 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                 |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |        |      |    |                |                |           |      |
| bis(2-Ethylhexyl)phthalate                               | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 117-81-7  |      |
| Fluoranthene   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 206-44-0  |      |
| Fluorene   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                 | <100    | ug/kg | 344    | 100  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 87-68-3   |      |
| Hexachlorobenzene  | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                | <1040   | ug/kg | 1040   | 1040 | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 77-47-4   |      |
| Hexachloroethane   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 193-39-5  |      |
| Isophorone   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 78-59-1   |      |
| 2-Methylnaphthalene                                      | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                 | <1040   | ug/kg | 1040   | 1040 | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                             | <1040   | ug/kg | 1040   | 1040 | 1  | 06/23/20 12:30 | 06/24/20 12:05 |           |      |
| Naphthalene  | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 91-20-3   |      |
| 2-Nitroaniline   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 88-74-4   |      |
| 3-Nitroaniline   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 99-09-2   |      |
| 4-Nitroaniline   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 100-01-6  |      |
| Nitrobenzene   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 98-95-3   |      |
| 2-Nitrophenol  | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 88-75-5   |      |
| 4-Nitrophenol  | <1670   | ug/kg | 1670   | 1670 | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 100-02-7  |      |
| N-Nitrosodimethylamine                                   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                               | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 86-30-6   |      |
| Pentachlorophenol  | <1530   | ug/kg | 1670   | 1530 | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 87-86-5   |      |
| Phenanthrene   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 85-01-8   |      |
| Phenol   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 108-95-2  |      |
| Pyrene   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                    | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                    | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)                                      | 57      | %     | 26-96  |      | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 4165-60-0 |      |
| Phenol-d5 (S)  | 82      | %     | 32-93  |      | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 4165-62-2 |      |
| 2-Fluorophenol (S)                                       | 85      | %     | 24-95  |      | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                 | 74      | %     | 20-109 |      | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 118-79-6  |      |
| 2-Fluorobiphenyl (S)                                     | 68      | %     | 36-91  |      | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 321-60-8  |      |
| p-Terphenyl-d14 (S)                                      | 88      | %     | 27-117 |      | 1  | 06/23/20 12:30 | 06/24/20 12:05 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                           |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                              |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |        |      |    |                |                |           |      |
| Acetone  | <957    | ug/kg | 957    | 957  | 1  |                | 06/24/20 04:10 | 67-64-1   |      |
| Acrylonitrile  | <95.7   | ug/kg | 95.7   | 95.7 | 1  |                | 06/24/20 04:10 | 107-13-1  |      |
| tert-Amylmethyl ether                                    | <239    | ug/kg | 239    | 239  | 1  |                | 06/24/20 04:10 | 994-05-8  | N2   |
| Benzene  | <47.9   | ug/kg | 47.9   | 47.9 | 1  |                | 06/24/20 04:10 | 71-43-2   |      |
| Bromobenzene   | <95.7   | ug/kg | 95.7   | 95.7 | 1  |                | 06/24/20 04:10 | 108-86-1  |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

Sample: MW-123 (4-5) Lab ID: 50260268002 Collected: 06/15/20 13:15 Received: 06/18/20 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Bromochloromethane             | <23.9   | ug/kg  | 47.9 | 23.9 | 1  |          | 06/24/20 04:10 | 74-97-5    |      |
| Bromodichloromethane           | <95.7   | ug/kg  | 95.7 | 95.7 | 1  |          | 06/24/20 04:10 | 75-27-4    |      |
| Bromoform                      | <95.7   | ug/kg  | 95.7 | 95.7 | 1  |          | 06/24/20 04:10 | 75-25-2    |      |
| Bromomethane                   | <191    | ug/kg  | 191  | 191  | 1  |          | 06/24/20 04:10 | 74-83-9    |      |
| 2-Butanone (MEK)               | <718    | ug/kg  | 718  | 718  | 1  |          | 06/24/20 04:10 | 78-93-3    |      |
| tert-Butyl Alcohol             | <2390   | ug/kg  | 2390 | 2390 | 1  |          | 06/24/20 04:10 | 75-65-0    |      |
| n-Butylbenzene                 | <47.9   | ug/kg  | 47.9 | 47.9 | 1  |          | 06/24/20 04:10 | 104-51-8   |      |
| sec-Butylbenzene               | <47.9   | ug/kg  | 47.9 | 47.9 | 1  |          | 06/24/20 04:10 | 135-98-8   |      |
| tert-Butylbenzene              | <47.9   | ug/kg  | 47.9 | 47.9 | 1  |          | 06/24/20 04:10 | 98-06-6    |      |
| Carbon disulfide               | <239    | ug/kg  | 239  | 239  | 1  |          | 06/24/20 04:10 | 75-15-0    |      |
| Carbon tetrachloride           | <47.9   | ug/kg  | 47.9 | 47.9 | 1  |          | 06/24/20 04:10 | 56-23-5    |      |
| Chlorobenzene                  | <47.9   | ug/kg  | 47.9 | 47.9 | 1  |          | 06/24/20 04:10 | 108-90-7   |      |
| Chloroethane                   | <239    | ug/kg  | 239  | 239  | 1  |          | 06/24/20 04:10 | 75-00-3    |      |
| Chloroform                     | <47.9   | ug/kg  | 47.9 | 47.9 | 1  |          | 06/24/20 04:10 | 67-66-3    |      |
| Chloromethane                  | <239    | ug/kg  | 239  | 239  | 1  |          | 06/24/20 04:10 | 74-87-3    |      |
| Cyclohexane                    | <479    | ug/kg  | 479  | 479  | 1  |          | 06/24/20 04:10 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <47.9   | ug/kg  | 47.9 | 47.9 | 1  |          | 06/24/20 04:10 | 96-12-8    |      |
| Dibromochloromethane           | <95.7   | ug/kg  | 95.7 | 95.7 | 1  |          | 06/24/20 04:10 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <47.9   | ug/kg  | 47.9 | 47.9 | 1  |          | 06/24/20 04:10 | 106-93-4   |      |
| Dibromomethane                 | <239    | ug/kg  | 239  | 239  | 1  |          | 06/24/20 04:10 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <95.7   | ug/kg  | 95.7 | 95.7 | 1  |          | 06/24/20 04:10 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <95.7   | ug/kg  | 95.7 | 95.7 | 1  |          | 06/24/20 04:10 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <95.7   | ug/kg  | 95.7 | 95.7 | 1  |          | 06/24/20 04:10 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <95.7   | ug/kg  | 95.7 | 95.7 | 1  |          | 06/24/20 04:10 | 110-57-6   |      |
| Dichlorodifluoromethane        | <239    | ug/kg  | 239  | 239  | 1  |          | 06/24/20 04:10 | 75-71-8    |      |
| 1,1-Dichloroethane             | <47.9   | ug/kg  | 47.9 | 47.9 | 1  |          | 06/24/20 04:10 | 75-34-3    |      |
| 1,2-Dichloroethane             | <47.9   | ug/kg  | 47.9 | 47.9 | 1  |          | 06/24/20 04:10 | 107-06-2   |      |
| 1,1-Dichloroethene             | <47.9   | ug/kg  | 47.9 | 47.9 | 1  |          | 06/24/20 04:10 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <47.9   | ug/kg  | 47.9 | 47.9 | 1  |          | 06/24/20 04:10 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <47.9   | ug/kg  | 47.9 | 47.9 | 1  |          | 06/24/20 04:10 | 156-60-5   |      |
| 1,2-Dichloropropane            | <47.9   | ug/kg  | 47.9 | 47.9 | 1  |          | 06/24/20 04:10 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <95.7   | ug/kg  | 95.7 | 95.7 | 1  |          | 06/24/20 04:10 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <95.7   | ug/kg  | 95.7 | 95.7 | 1  |          | 06/24/20 04:10 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <191    | ug/kg  | 191  | 191  | 1  |          | 06/24/20 04:10 | 60-29-7    |      |
| Diisopropyl ether              | <239    | ug/kg  | 239  | 239  | 1  |          | 06/24/20 04:10 | 108-20-3   | N2   |
| Ethylbenzene                   | <47.9   | ug/kg  | 47.9 | 47.9 | 1  |          | 06/24/20 04:10 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <239    | ug/kg  | 239  | 239  | 1  |          | 06/24/20 04:10 | 637-92-3   | N2   |
| Hexachloroethane               | <287    | ug/kg  | 287  | 287  | 1  |          | 06/24/20 04:10 | 67-72-1    | N2   |
| 2-Hexanone                     | <2390   | ug/kg  | 2390 | 2390 | 1  |          | 06/24/20 04:10 | 591-78-6   |      |
| Iodomethane                    | <95.7   | ug/kg  | 95.7 | 95.7 | 1  |          | 06/24/20 04:10 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <239    | ug/kg  | 239  | 239  | 1  |          | 06/24/20 04:10 | 98-82-8    |      |
| p-Isopropyltoluene             | <23.9   | ug/kg  | 47.9 | 23.9 | 1  |          | 06/24/20 04:10 | 99-87-6    |      |
| Methylene Chloride             | <95.7   | ug/kg  | 95.7 | 95.7 | 1  |          | 06/24/20 04:10 | 75-09-2    |      |
| 2-Methylnaphthalene            | <316    | ug/kg  | 316  | 316  | 1  |          | 06/24/20 04:10 | 91-57-6    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-123 (4-5)**      **Lab ID: 50260268002**      Collected: 06/15/20 13:15      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|---------|--|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| 4-Methyl-2-pentanone (MIBK)    | <2390   | ug/kg  | 2390   | 2390 | 1  |          | 06/24/20 04:10 | 108-10-1    |      |
| Methyl-tert-butyl ether        | <239    | ug/kg  | 239    | 239  | 1  |          | 06/24/20 04:10 | 1634-04-4   |      |
| Naphthalene                    | <316    | ug/kg  | 316    | 316  | 1  |          | 06/24/20 04:10 | 91-20-3     |      |
| n-Propylbenzene                | <95.7   | ug/kg  | 95.7   | 95.7 | 1  |          | 06/24/20 04:10 | 103-65-1    |      |
| Styrene                        | <47.9   | ug/kg  | 47.9   | 47.9 | 1  |          | 06/24/20 04:10 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane      | <95.7   | ug/kg  | 95.7   | 95.7 | 1  |          | 06/24/20 04:10 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane      | <47.9   | ug/kg  | 47.9   | 47.9 | 1  |          | 06/24/20 04:10 | 79-34-5     |      |
| Tetrachloroethene              | <47.9   | ug/kg  | 47.9   | 47.9 | 1  |          | 06/24/20 04:10 | 127-18-4    |      |
| Tetrahydrofuran                | <957    | ug/kg  | 957    | 957  | 1  |          | 06/24/20 04:10 | 109-99-9    | N2   |
| Toluene                        | <95.7   | ug/kg  | 95.7   | 95.7 | 1  |          | 06/24/20 04:10 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene         | <239    | ug/kg  | 239    | 239  | 1  |          | 06/24/20 04:10 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene         | <239    | ug/kg  | 239    | 239  | 1  |          | 06/24/20 04:10 | 120-82-1    |      |
| 1,1,1-Trichloroethane          | <47.9   | ug/kg  | 47.9   | 47.9 | 1  |          | 06/24/20 04:10 | 71-55-6     |      |
| 1,1,2-Trichloroethane          | <47.9   | ug/kg  | 47.9   | 47.9 | 1  |          | 06/24/20 04:10 | 79-00-5     |      |
| Trichloroethene                | <47.9   | ug/kg  | 47.9   | 47.9 | 1  |          | 06/24/20 04:10 | 79-01-6     |      |
| Trichlorofluoromethane         | <95.7   | ug/kg  | 95.7   | 95.7 | 1  |          | 06/24/20 04:10 | 75-69-4     |      |
| 1,2,3-Trichloropropane         | <95.7   | ug/kg  | 95.7   | 95.7 | 1  |          | 06/24/20 04:10 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene         | <239    | ug/kg  | 239    | 239  | 1  |          | 06/24/20 04:10 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene         | <95.7   | ug/kg  | 95.7   | 95.7 | 1  |          | 06/24/20 04:10 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | <95.7   | ug/kg  | 95.7   | 95.7 | 1  |          | 06/24/20 04:10 | 108-67-8    |      |
| Vinyl chloride                 | <38.3   | ug/kg  | 38.3   | 38.3 | 1  |          | 06/24/20 04:10 | 75-01-4     |      |
| m&p-Xylene                     | <23.9   | ug/kg  | 47.9   | 23.9 | 1  |          | 06/24/20 04:10 | 179601-23-1 |      |
| o-Xylene                       | <23.9   | ug/kg  | 47.9   | 23.9 | 1  |          | 06/24/20 04:10 | 95-47-6     |      |
| <b>Surrogates</b>              |         |  |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)       | 103     | %  | 62-137 |      | 1  |          | 06/24/20 04:10 | 1868-53-7   |      |
| Toluene-d8 (S)                 | 99      | %  | 64-139 |      | 1  |          | 06/24/20 04:10 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)       | 103     | %  | 60-142 |      | 1  |          | 06/24/20 04:10 | 460-00-4    |      |

**Percent Moisture**

Analytical Method: SM 2540G  
Pace Analytical Services - Indianapolis

|                  |     |   |      |      |   |  |                |  |  |
|------------------|-----|---|------|------|---|--|----------------|--|--|
| Percent Moisture | 6.5 | % | 0.10 | 0.10 | 1 |  | 06/23/20 13:45 |  |  |
|------------------|-----|---|------|------|---|--|----------------|--|--|

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-124 (4-5)**      **Lab ID: 50260268003**      Collected: 06/15/20 12:40      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL    | DF  | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|--------|-----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                     |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| n-Butanol  | <4700   | ug/kg | 4700   | 4700   | 1   |                | 06/22/20 16:15 | 71-36-3   |      |
| Ethanol  | <2670   | ug/kg | 2670   | 2670   | 1   |                | 06/22/20 16:15 | 64-17-5   |      |
| Methanol   | <4700   | ug/kg | 4700   | 4700   | 1   |                | 06/22/20 16:15 | 67-56-1   |      |
| <b>6010 MET ICP</b>  |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050  |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| Antimony   | <957    | ug/kg | 957    | 957    | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7440-36-0 |      |
| Arsenic  | <1910   | ug/kg | 1910   | 1910   | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7440-38-2 |      |
| Barium   | 8540    | ug/kg | 957    | 957    | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7440-39-3 |      |
| Beryllium  | <478    | ug/kg | 478    | 478    | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7440-41-7 |      |
| Boron  | <7650   | ug/kg | 7650   | 7650   | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7440-42-8 |      |
| Calcium  | 628000  | ug/kg | 47800  | 6340   | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7440-70-2 |      |
| Chromium   | 5880    | ug/kg | 1910   | 1910   | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7440-47-3 |      |
| Copper   | 1580    | ug/kg | 957    | 957    | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7440-50-8 |      |
| Iron   | 3940000 | ug/kg | 23900  | 7270   | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7439-89-6 |      |
| Lead   | <9570   | ug/kg | 9570   | 9570   | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7439-92-1 |      |
| Magnesium  | 739000  | ug/kg | 23900  | 3830   | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7439-95-4 |      |
| Manganese  | 27300   | ug/kg | 957    | 957    | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7439-96-5 |      |
| Molybdenum   | <957    | ug/kg | 957    | 957    | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7439-98-7 |      |
| Nickel   | 3880    | ug/kg | 957    | 957    | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7440-02-0 |      |
| Potassium  | 148000  | ug/kg | 47800  | 4680   | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7440-09-7 |      |
| Sodium   | 23200J  | ug/kg | 23900  | 13000  | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7440-23-5 |      |
| Strontium  | <4780   | ug/kg | 4780   | 4780   | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7440-24-6 |      |
| Vanadium   | 8010    | ug/kg | 957    | 957    | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7440-62-2 |      |
| Zinc   | 8190    | ug/kg | 957    | 957    | 1   | 06/26/20 14:44 | 06/29/20 11:57 | 7440-66-6 |      |
| <b>6020 MET ICPMS</b>  |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| Aluminum   | 3620000 | ug/kg | 102000 | 102000 | 100 | 06/24/20 09:22 | 06/30/20 00:45 | 7429-90-5 |      |
| Cadmium  | <203    | ug/kg | 203    | 203    | 1   | 06/24/20 09:22 | 06/25/20 14:31 | 7440-43-9 |      |
| Cobalt   | 1350    | ug/kg | 509    | 509    | 1   | 06/24/20 09:22 | 06/25/20 14:31 | 7440-48-4 |      |
| Selenium   | <203    | ug/kg | 203    | 203    | 1   | 06/24/20 09:22 | 06/25/20 14:31 | 7782-49-2 |      |
| Silver   | <102    | ug/kg | 102    | 102    | 1   | 06/24/20 09:22 | 06/25/20 14:31 | 7440-22-4 |      |
| Thallium   | <509    | ug/kg | 509    | 509    | 1   | 06/24/20 09:22 | 06/25/20 14:31 | 7440-28-0 |      |
| Titanium   | 220000  | ug/kg | 10200  | 2710   | 100 | 06/24/20 09:22 | 06/30/20 00:45 | 7440-32-6 | N2   |
| <b>7471 Mercury</b>  |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 7471      Preparation Method: EPA 7471  |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| Mercury  | <86.7   | ug/kg | 110    | 86.7   | 1   | 06/26/20 02:49 | 06/26/20 07:16 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                       |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 8270      Preparation Method: EPA 3546  |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| Acenaphthene   | <350    | ug/kg | 350    | 350    | 1   | 06/23/20 12:30 | 06/24/20 12:22 | 83-32-9   |      |
| Acenaphthylene   | <350    | ug/kg | 350    | 350    | 1   | 06/23/20 12:30 | 06/24/20 12:22 | 208-96-8  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-124 (4-5)**      **Lab ID: 50260268003**      Collected: 06/15/20 12:40      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                    |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |      |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |      |      |    |                |                |           |      |
| Anthracene  | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 120-12-7  |      |
| Benzo(a)anthracene  | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 56-55-3   |      |
| Benzo(a)pyrene  | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 207-08-9  |      |
| 4-Bromophenylphenyl ether                                   | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 101-55-3  |      |
| Butylbenzylphthalate  | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 85-68-7   |      |
| Carbazole   | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                     | <297    | ug/kg | 350  | 297  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                                  | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                    | <170    | ug/kg | 350  | 170  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                                | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 108-60-1  |      |
| 2-Chloronaphthalene   | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 91-58-7   |      |
| 2-Chlorophenol  | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                                  | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 7005-72-3 |      |
| Chrysene  | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                       | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 53-70-3   |      |
| Dibenzofuran  | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 132-64-9  |      |
| 2,4-Dichlorophenol  | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 120-83-2  |      |
| Diethylphthalate  | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 84-66-2   |      |
| 2,4-Dimethylphenol  | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 105-67-9  |      |
| Dimethylphthalate   | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 131-11-3  |      |
| Di-n-butylphthalate   | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                                  | <880    | ug/kg | 880  | 880  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 534-52-1  |      |
| 2,4-Dinitrophenol   | <1700   | ug/kg | 1700 | 1700 | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 51-28-5   |      |
| 2,4-Dinitrotoluene  | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 121-14-2  |      |
| 2,6-Dinitrotoluene  | <93.9   | ug/kg | 350  | 93.9 | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 606-20-2  |      |
| Di-n-octylphthalate   | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                       | <1700   | ug/kg | 1700 | 1700 | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate                                  | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 117-81-7  |      |
| Fluoranthene  | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 206-44-0  |      |
| Fluorene  | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                    | <102    | ug/kg | 350  | 102  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 87-68-3   |      |
| Hexachlorobenzene   | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                   | <1060   | ug/kg | 1060 | 1060 | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 77-47-4   |      |
| Hexachloroethane  | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                      | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 193-39-5  |      |
| Isophorone  | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 78-59-1   |      |
| 2-Methylnaphthalene   | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                    | <1060   | ug/kg | 1060 | 1060 | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                                | <1060   | ug/kg | 1060 | 1060 | 1  | 06/23/20 12:30 | 06/24/20 12:22 |           |      |
| Naphthalene   | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 91-20-3   |      |
| 2-Nitroaniline  | <350    | ug/kg | 350  | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 88-74-4   |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-124 (4-5)**      **Lab ID: 50260268003**      Collected: 06/15/20 12:40      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                    |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| 3-Nitroaniline  | <350    | ug/kg | 350    | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 99-09-2   |      |
| 4-Nitroaniline  | <350    | ug/kg | 350    | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 100-01-6  |      |
| Nitrobenzene  | <350    | ug/kg | 350    | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 98-95-3   |      |
| 2-Nitrophenol   | <350    | ug/kg | 350    | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 88-75-5   |      |
| 4-Nitrophenol   | <1700   | ug/kg | 1700   | 1700 | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 100-02-7  |      |
| N-Nitrosodimethylamine                                      | <350    | ug/kg | 350    | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                                  | <350    | ug/kg | 350    | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                      | <350    | ug/kg | 350    | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 86-30-6   |      |
| Pentachlorophenol   | <1560   | ug/kg | 1700   | 1560 | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 87-86-5   |      |
| Phenanthrene  | <350    | ug/kg | 350    | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 85-01-8   |      |
| Phenol  | <350    | ug/kg | 350    | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 108-95-2  |      |
| Pyrene  | <350    | ug/kg | 350    | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                      | <350    | ug/kg | 350    | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                       | <350    | ug/kg | 350    | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                       | <350    | ug/kg | 350    | 350  | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 88-06-2   |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)   | 73      | %     | 26-96  |      | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 4165-60-0 |      |
| Phenol-d5 (S)   | 81      | %     | 32-93  |      | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 4165-62-2 |      |
| 2-Fluorophenol (S)  | 83      | %     | 24-95  |      | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                    | 78      | %     | 20-109 |      | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 118-79-6  |      |
| 2-Fluorobiphenyl (S)  | 79      | %     | 36-91  |      | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 93      | %     | 27-117 |      | 1  | 06/23/20 12:30 | 06/24/20 12:22 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                              |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                                 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| Acetone   | <986    | ug/kg | 986    | 986  | 1  |                | 06/24/20 04:43 | 67-64-1   |      |
| Acrylonitrile   | <98.6   | ug/kg | 98.6   | 98.6 | 1  |                | 06/24/20 04:43 | 107-13-1  |      |
| tert-Amylmethyl ether                                       | <247    | ug/kg | 247    | 247  | 1  |                | 06/24/20 04:43 | 994-05-8  | N2   |
| Benzene   | <49.3   | ug/kg | 49.3   | 49.3 | 1  |                | 06/24/20 04:43 | 71-43-2   |      |
| Bromobenzene  | <98.6   | ug/kg | 98.6   | 98.6 | 1  |                | 06/24/20 04:43 | 108-86-1  |      |
| Bromochloromethane  | <24.7   | ug/kg | 49.3   | 24.7 | 1  |                | 06/24/20 04:43 | 74-97-5   |      |
| Bromodichloromethane  | <98.6   | ug/kg | 98.6   | 98.6 | 1  |                | 06/24/20 04:43 | 75-27-4   |      |
| Bromoform   | <98.6   | ug/kg | 98.6   | 98.6 | 1  |                | 06/24/20 04:43 | 75-25-2   |      |
| Bromomethane  | <197    | ug/kg | 197    | 197  | 1  |                | 06/24/20 04:43 | 74-83-9   |      |
| 2-Butanone (MEK)  | <740    | ug/kg | 740    | 740  | 1  |                | 06/24/20 04:43 | 78-93-3   |      |
| tert-Butyl Alcohol  | <2470   | ug/kg | 2470   | 2470 | 1  |                | 06/24/20 04:43 | 75-65-0   |      |
| n-Butylbenzene  | <49.3   | ug/kg | 49.3   | 49.3 | 1  |                | 06/24/20 04:43 | 104-51-8  |      |
| sec-Butylbenzene  | <49.3   | ug/kg | 49.3   | 49.3 | 1  |                | 06/24/20 04:43 | 135-98-8  |      |
| tert-Butylbenzene   | <49.3   | ug/kg | 49.3   | 49.3 | 1  |                | 06/24/20 04:43 | 98-06-6   |      |
| Carbon disulfide  | <247    | ug/kg | 247    | 247  | 1  |                | 06/24/20 04:43 | 75-15-0   |      |
| Carbon tetrachloride  | <49.3   | ug/kg | 49.3   | 49.3 | 1  |                | 06/24/20 04:43 | 56-23-5   |      |
| Chlorobenzene   | <49.3   | ug/kg | 49.3   | 49.3 | 1  |                | 06/24/20 04:43 | 108-90-7  |      |
| Chloroethane  | <247    | ug/kg | 247    | 247  | 1  |                | 06/24/20 04:43 | 75-00-3   |      |
| Chloroform  | <49.3   | ug/kg | 49.3   | 49.3 | 1  |                | 06/24/20 04:43 | 67-66-3   |      |

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-124 (4-5)**      **Lab ID: 50260268003**      Collected: 06/15/20 12:40      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Chloromethane                  | <247    | ug/kg  | 247  | 247  | 1  |          | 06/24/20 04:43 | 74-87-3    |      |
| Cyclohexane                    | <493    | ug/kg  | 493  | 493  | 1  |          | 06/24/20 04:43 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <49.3   | ug/kg  | 49.3 | 49.3 | 1  |          | 06/24/20 04:43 | 96-12-8    |      |
| Dibromochloromethane           | <98.6   | ug/kg  | 98.6 | 98.6 | 1  |          | 06/24/20 04:43 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <49.3   | ug/kg  | 49.3 | 49.3 | 1  |          | 06/24/20 04:43 | 106-93-4   |      |
| Dibromomethane                 | <247    | ug/kg  | 247  | 247  | 1  |          | 06/24/20 04:43 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <98.6   | ug/kg  | 98.6 | 98.6 | 1  |          | 06/24/20 04:43 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <98.6   | ug/kg  | 98.6 | 98.6 | 1  |          | 06/24/20 04:43 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <98.6   | ug/kg  | 98.6 | 98.6 | 1  |          | 06/24/20 04:43 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <98.6   | ug/kg  | 98.6 | 98.6 | 1  |          | 06/24/20 04:43 | 110-57-6   |      |
| Dichlorodifluoromethane        | <247    | ug/kg  | 247  | 247  | 1  |          | 06/24/20 04:43 | 75-71-8    |      |
| 1,1-Dichloroethane             | <49.3   | ug/kg  | 49.3 | 49.3 | 1  |          | 06/24/20 04:43 | 75-34-3    |      |
| 1,2-Dichloroethane             | <49.3   | ug/kg  | 49.3 | 49.3 | 1  |          | 06/24/20 04:43 | 107-06-2   |      |
| 1,1-Dichloroethene             | <49.3   | ug/kg  | 49.3 | 49.3 | 1  |          | 06/24/20 04:43 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <49.3   | ug/kg  | 49.3 | 49.3 | 1  |          | 06/24/20 04:43 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <49.3   | ug/kg  | 49.3 | 49.3 | 1  |          | 06/24/20 04:43 | 156-60-5   |      |
| 1,2-Dichloropropane            | <49.3   | ug/kg  | 49.3 | 49.3 | 1  |          | 06/24/20 04:43 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <98.6   | ug/kg  | 98.6 | 98.6 | 1  |          | 06/24/20 04:43 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <98.6   | ug/kg  | 98.6 | 98.6 | 1  |          | 06/24/20 04:43 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <197    | ug/kg  | 197  | 197  | 1  |          | 06/24/20 04:43 | 60-29-7    |      |
| Diisopropyl ether              | <247    | ug/kg  | 247  | 247  | 1  |          | 06/24/20 04:43 | 108-20-3   | N2   |
| Ethylbenzene                   | <49.3   | ug/kg  | 49.3 | 49.3 | 1  |          | 06/24/20 04:43 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <247    | ug/kg  | 247  | 247  | 1  |          | 06/24/20 04:43 | 637-92-3   | N2   |
| Hexachloroethane               | <296    | ug/kg  | 296  | 296  | 1  |          | 06/24/20 04:43 | 67-72-1    | N2   |
| 2-Hexanone                     | <2470   | ug/kg  | 2470 | 2470 | 1  |          | 06/24/20 04:43 | 591-78-6   |      |
| Iodomethane                    | <98.6   | ug/kg  | 98.6 | 98.6 | 1  |          | 06/24/20 04:43 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <247    | ug/kg  | 247  | 247  | 1  |          | 06/24/20 04:43 | 98-82-8    |      |
| p-Isopropyltoluene             | <24.7   | ug/kg  | 49.3 | 24.7 | 1  |          | 06/24/20 04:43 | 99-87-6    |      |
| Methylene Chloride             | <98.6   | ug/kg  | 98.6 | 98.6 | 1  |          | 06/24/20 04:43 | 75-09-2    |      |
| 2-Methylnaphthalene            | <326    | ug/kg  | 326  | 326  | 1  |          | 06/24/20 04:43 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)    | <2470   | ug/kg  | 2470 | 2470 | 1  |          | 06/24/20 04:43 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <247    | ug/kg  | 247  | 247  | 1  |          | 06/24/20 04:43 | 1634-04-4  |      |
| Naphthalene                    | <326    | ug/kg  | 326  | 326  | 1  |          | 06/24/20 04:43 | 91-20-3    |      |
| n-Propylbenzene                | <98.6   | ug/kg  | 98.6 | 98.6 | 1  |          | 06/24/20 04:43 | 103-65-1   |      |
| Styrene                        | <49.3   | ug/kg  | 49.3 | 49.3 | 1  |          | 06/24/20 04:43 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <98.6   | ug/kg  | 98.6 | 98.6 | 1  |          | 06/24/20 04:43 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane      | <49.3   | ug/kg  | 49.3 | 49.3 | 1  |          | 06/24/20 04:43 | 79-34-5    |      |
| Tetrachloroethene              | <49.3   | ug/kg  | 49.3 | 49.3 | 1  |          | 06/24/20 04:43 | 127-18-4   |      |
| Tetrahydrofuran                | <98.6   | ug/kg  | 98.6 | 98.6 | 1  |          | 06/24/20 04:43 | 109-99-9   | N2   |
| Toluene                        | <98.6   | ug/kg  | 98.6 | 98.6 | 1  |          | 06/24/20 04:43 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene         | <247    | ug/kg  | 247  | 247  | 1  |          | 06/24/20 04:43 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene         | <247    | ug/kg  | 247  | 247  | 1  |          | 06/24/20 04:43 | 120-82-1   |      |
| 1,1,1-Trichloroethane          | <49.3   | ug/kg  | 49.3 | 49.3 | 1  |          | 06/24/20 04:43 | 71-55-6    |      |
| 1,1,2-Trichloroethane          | <49.3   | ug/kg  | 49.3 | 49.3 | 1  |          | 06/24/20 04:43 | 79-00-5    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-124 (4-5)**      **Lab ID: 50260268003**      Collected: 06/15/20 12:40      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Trichloroethene                         | <49.3   | ug/kg | 49.3   | 49.3 | 1  |          | 06/24/20 04:43 | 79-01-6     |      |
| Trichlorofluoromethane                  | <98.6   | ug/kg | 98.6   | 98.6 | 1  |          | 06/24/20 04:43 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <98.6   | ug/kg | 98.6   | 98.6 | 1  |          | 06/24/20 04:43 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <247    | ug/kg | 247    | 247  | 1  |          | 06/24/20 04:43 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <98.6   | ug/kg | 98.6   | 98.6 | 1  |          | 06/24/20 04:43 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <98.6   | ug/kg | 98.6   | 98.6 | 1  |          | 06/24/20 04:43 | 108-67-8    |      |
| Vinyl chloride                          | <39.5   | ug/kg | 39.5   | 39.5 | 1  |          | 06/24/20 04:43 | 75-01-4     |      |
| m&p-Xylene                              | <24.7   | ug/kg | 49.3   | 24.7 | 1  |          | 06/24/20 04:43 | 179601-23-1 |      |
| o-Xylene                                | <24.7   | ug/kg | 49.3   | 24.7 | 1  |          | 06/24/20 04:43 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 102     | %     | 62-137 |      | 1  |          | 06/24/20 04:43 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 97      | %     | 64-139 |      | 1  |          | 06/24/20 04:43 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 102     | %     | 60-142 |      | 1  |          | 06/24/20 04:43 | 460-00-4    |      |
| <b>Percent Moisture</b>                 |         |       |        |      |    |          |                |             |      |
| Analytical Method: SM 2540G             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Percent Moisture                        | 6.3     | %     | 0.10   | 0.10 | 1  |          | 06/23/20 13:45 |             |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-125 (4-5)**      **Lab ID: 50260268004**      Collected: 06/16/20 11:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results  | Units | PQL    | MDL    | DF  | Prepared       | Analyzed       | CAS No.    | Qual |
|--|----------|-------|--------|--------|-----|----------------|----------------|------------|------|
| <b>8015M Alcohols in solids</b>                                |          |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                     |          |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |        |     |                |                |            |      |
| n-Butanol  | <4670    | ug/kg | 4670   | 4670   | 1   |                | 06/22/20 16:25 | 71-36-3    |      |
| Ethanol  | <2650    | ug/kg | 2650   | 2650   | 1   |                | 06/22/20 16:25 | 64-17-5    |      |
| Methanol   | <4670    | ug/kg | 4670   | 4670   | 1   |                | 06/22/20 16:25 | 67-56-1    |      |
| <b>8082 GCS PCB Solids</b>                                     |          |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 8082      Preparation Method: EPA 3546  |          |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |        |     |                |                |            |      |
| PCB-1016 (Aroclor 1016)  | <350     | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 21:22 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)  | <350     | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 21:22 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)  | <350     | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 21:22 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)  | <350     | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 21:22 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)  | <350     | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 21:22 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)  | <350     | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 21:22 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)  | <350     | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 21:22 | 11096-82-5 |      |
| PCB-1262 (Aroclor 1262)  | <350     | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 21:22 | 37324-23-5 | N2   |
| PCB-1268 (Aroclor 1268)  | <350     | ug/kg | 350    | 350    | 1   | 06/24/20 21:50 | 06/25/20 21:22 | 11100-14-4 | N2   |
| <b>Surrogates</b>  |          |       |        |        |     |                |                |            |      |
| Tetrachloro-m-xylene (S)                                       | 69       | %     | 25-123 |        | 1   | 06/24/20 21:50 | 06/25/20 21:22 | 877-09-8   |      |
| <b>6010 MET ICP</b>  |          |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050  |          |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |        |     |                |                |            |      |
| Antimony   | <1030    | ug/kg | 1030   | 1030   | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7440-36-0  |      |
| Arsenic  | 2940     | ug/kg | 2070   | 2070   | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7440-38-2  |      |
| Barium   | 33400    | ug/kg | 1030   | 1030   | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7440-39-3  |      |
| Beryllium  | <517     | ug/kg | 517    | 517    | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7440-41-7  |      |
| Boron  | <8260    | ug/kg | 8260   | 8260   | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7440-42-8  |      |
| Calcium  | 28700000 | ug/kg | 258000 | 34200  | 5   | 06/26/20 14:44 | 06/29/20 12:43 | 7440-70-2  |      |
| Chromium   | 11100    | ug/kg | 2070   | 2070   | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7440-47-3  |      |
| Copper   | 9020     | ug/kg | 1030   | 1030   | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7440-50-8  |      |
| Iron   | 5840000  | ug/kg | 25800  | 7850   | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7439-89-6  |      |
| Lead   | 33800    | ug/kg | 10300  | 10300  | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7439-92-1  |      |
| Magnesium  | 4260000  | ug/kg | 25800  | 4130   | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7439-95-4  |      |
| Manganese  | 122000   | ug/kg | 1030   | 1030   | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7439-96-5  |      |
| Molybdenum   | <1030    | ug/kg | 1030   | 1030   | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7439-98-7  |      |
| Nickel   | 6660     | ug/kg | 1030   | 1030   | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7440-02-0  |      |
| Potassium  | 337000   | ug/kg | 51700  | 5050   | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7440-09-7  |      |
| Sodium   | 65200    | ug/kg | 25800  | 14100  | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7440-23-5  |      |
| Strontium  | 29300    | ug/kg | 5170   | 5170   | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7440-24-6  |      |
| Vanadium   | 13200    | ug/kg | 1030   | 1030   | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7440-62-2  |      |
| Zinc   | 50800    | ug/kg | 1030   | 1030   | 1   | 06/26/20 14:44 | 06/29/20 12:07 | 7440-66-6  |      |
| <b>6020 MET ICPMS</b>  |          |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B |          |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |        |     |                |                |            |      |
| Aluminum   | 5130000  | ug/kg | 102000 | 102000 | 100 | 06/24/20 09:22 | 06/30/20 00:50 | 7429-90-5  |      |
| Cadmium  | 290      | ug/kg | 205    | 205    | 1   | 06/24/20 09:22 | 06/25/20 14:40 | 7440-43-9  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

Sample: MW-125 (4-5) Lab ID: 50260268004 Collected: 06/16/20 11:00 Received: 06/18/20 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters  | Results | Units | PQL   | MDL  | DF  | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|-------|------|-----|----------------|----------------|-----------|------|
| <b>6020 MET ICPMS</b>                                     |         |       |       |      |     |                |                |           |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B |         |       |       |      |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |      |     |                |                |           |      |
| Cobalt  | 2270    | ug/kg | 512   | 512  | 1   | 06/24/20 09:22 | 06/25/20 14:40 | 7440-48-4 |      |
| Selenium  | <1020   | ug/kg | 1020  | 1020 | 5   | 06/24/20 09:22 | 06/30/20 02:36 | 7782-49-2 | D3   |
| Silver  | 1840    | ug/kg | 102   | 102  | 1   | 06/24/20 09:22 | 06/25/20 14:40 | 7440-22-4 |      |
| Thallium  | <512    | ug/kg | 512   | 512  | 1   | 06/24/20 09:22 | 06/25/20 14:40 | 7440-28-0 |      |
| Titanium  | 284000  | ug/kg | 10200 | 2730 | 100 | 06/24/20 09:22 | 06/30/20 00:50 | 7440-32-6 | N2   |
| <b>7471 Mercury</b>                                       |         |       |       |      |     |                |                |           |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471  |         |       |       |      |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |      |     |                |                |           |      |
| Mercury   | 940     | ug/kg | 103   | 81.6 | 1   | 06/26/20 02:49 | 06/26/20 07:18 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                  |         |       |       |      |     |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546  |         |       |       |      |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |      |     |                |                |           |      |
| Acenaphthene  | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 83-32-9   |      |
| Acenaphthylene  | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 208-96-8  |      |
| Anthracene  | 549     | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 120-12-7  |      |
| Benzo(a)anthracene  | 2190    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 56-55-3   |      |
| Benzo(a)pyrene  | 1860    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 50-32-8   |      |
| Benzo(b)fluoranthene                                      | 2650    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 205-99-2  |      |
| Benzo(g,h,i)perylene                                      | 1040    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 191-24-2  |      |
| Benzo(k)fluoranthene                                      | 1000    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 207-08-9  |      |
| 4-Bromophenylphenyl ether                                 | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 101-55-3  |      |
| Butylbenzylphthalate                                      | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 85-68-7   |      |
| Carbazole   | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                   | <294    | ug/kg | 347   | 294  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                                | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                  | <168    | ug/kg | 347   | 168  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                              | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 108-60-1  |      |
| 2-Chloronaphthalene                                       | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 91-58-7   |      |
| 2-Chlorophenol  | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                                | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 7005-72-3 |      |
| Chrysene  | 2070    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                     | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 53-70-3   |      |
| Dibenzofuran  | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 132-64-9  |      |
| 2,4-Dichlorophenol  | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 120-83-2  |      |
| Diethylphthalate  | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 84-66-2   |      |
| 2,4-Dimethylphenol  | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 105-67-9  |      |
| Dimethylphthalate   | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 131-11-3  |      |
| Di-n-butylphthalate                                       | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                                | <872    | ug/kg | 872   | 872  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 534-52-1  |      |
| 2,4-Dinitrophenol   | <1680   | ug/kg | 1680  | 1680 | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 51-28-5   |      |
| 2,4-Dinitrotoluene  | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 121-14-2  |      |
| 2,6-Dinitrotoluene  | <93.0   | ug/kg | 347   | 93.0 | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 606-20-2  |      |
| Di-n-octylphthalate                                       | <347    | ug/kg | 347   | 347  | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                     | <1680   | ug/kg | 1680  | 1680 | 1   | 06/23/20 12:30 | 06/24/20 12:40 | 122-66-7  |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-125 (4-5)**      **Lab ID: 50260268004**      Collected: 06/16/20 11:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                    |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| bis(2-Ethylhexyl)phthalate                                  | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 117-81-7  |      |
| Fluoranthene  | 4260    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 206-44-0  |      |
| Fluorene  | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                    | <101    | ug/kg | 347    | 101  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 87-68-3   |      |
| Hexachlorobenzene   | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                   | <1050   | ug/kg | 1050   | 1050 | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 77-47-4   |      |
| Hexachloroethane  | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                      | 914     | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 193-39-5  |      |
| Isophorone  | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 78-59-1   |      |
| 2-Methylnaphthalene   | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                    | <1050   | ug/kg | 1050   | 1050 | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                                | <1050   | ug/kg | 1050   | 1050 | 1  | 06/23/20 12:30 | 06/24/20 12:40 |           |      |
| Naphthalene   | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 91-20-3   |      |
| 2-Nitroaniline  | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 88-74-4   |      |
| 3-Nitroaniline  | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 99-09-2   |      |
| 4-Nitroaniline  | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 100-01-6  |      |
| Nitrobenzene  | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 98-95-3   |      |
| 2-Nitrophenol   | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 88-75-5   |      |
| 4-Nitrophenol   | <1680   | ug/kg | 1680   | 1680 | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 100-02-7  |      |
| N-Nitrosodimethylamine                                      | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                                  | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                      | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 86-30-6   |      |
| Pentachlorophenol   | <1540   | ug/kg | 1680   | 1540 | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 87-86-5   |      |
| Phenanthrene  | 2250    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 85-01-8   |      |
| Phenol  | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 108-95-2  |      |
| Pyrene  | 3800    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                      | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                       | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                       | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 88-06-2   |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)   | 56      | %     | 26-96  |      | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 4165-60-0 |      |
| Phenol-d5 (S)   | 72      | %     | 32-93  |      | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 4165-62-2 |      |
| 2-Fluorophenol (S)  | 72      | %     | 24-95  |      | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                    | 44      | %     | 20-109 |      | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 118-79-6  |      |
| 2-Fluorobiphenyl (S)  | 75      | %     | 36-91  |      | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 85      | %     | 27-117 |      | 1  | 06/23/20 12:30 | 06/24/20 12:40 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                              |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                                 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| Acetone   | <1050   | ug/kg | 1050   | 1050 | 1  |                | 06/24/20 05:16 | 67-64-1   |      |
| Acrylonitrile   | <105    | ug/kg | 105    | 105  | 1  |                | 06/24/20 05:16 | 107-13-1  |      |
| tert-Amylmethyl ether                                       | <264    | ug/kg | 264    | 264  | 1  |                | 06/24/20 05:16 | 994-05-8  | N2   |
| Benzene   | <52.7   | ug/kg | 52.7   | 52.7 | 1  |                | 06/24/20 05:16 | 71-43-2   |      |
| Bromobenzene  | <105    | ug/kg | 105    | 105  | 1  |                | 06/24/20 05:16 | 108-86-1  |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

Sample: MW-125 (4-5) Lab ID: 50260268004 Collected: 06/16/20 11:00 Received: 06/18/20 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Bromochloromethane             | <26.4   | ug/kg  | 52.7 | 26.4 | 1  |          | 06/24/20 05:16 | 74-97-5    |      |
| Bromodichloromethane           | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 05:16 | 75-27-4    |      |
| Bromoform                      | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 05:16 | 75-25-2    |      |
| Bromomethane                   | <211    | ug/kg  | 211  | 211  | 1  |          | 06/24/20 05:16 | 74-83-9    |      |
| 2-Butanone (MEK)               | <791    | ug/kg  | 791  | 791  | 1  |          | 06/24/20 05:16 | 78-93-3    |      |
| tert-Butyl Alcohol             | <2640   | ug/kg  | 2640 | 2640 | 1  |          | 06/24/20 05:16 | 75-65-0    |      |
| n-Butylbenzene                 | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 05:16 | 104-51-8   |      |
| sec-Butylbenzene               | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 05:16 | 135-98-8   |      |
| tert-Butylbenzene              | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 05:16 | 98-06-6    |      |
| Carbon disulfide               | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 05:16 | 75-15-0    |      |
| Carbon tetrachloride           | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 05:16 | 56-23-5    |      |
| Chlorobenzene                  | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 05:16 | 108-90-7   |      |
| Chloroethane                   | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 05:16 | 75-00-3    |      |
| Chloroform                     | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 05:16 | 67-66-3    |      |
| Chloromethane                  | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 05:16 | 74-87-3    |      |
| Cyclohexane                    | <527    | ug/kg  | 527  | 527  | 1  |          | 06/24/20 05:16 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 05:16 | 96-12-8    |      |
| Dibromochloromethane           | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 05:16 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 05:16 | 106-93-4   |      |
| Dibromomethane                 | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 05:16 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 05:16 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 05:16 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 05:16 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <105    | ug/kg  | 1050 | 105  | 1  |          | 06/24/20 05:16 | 110-57-6   |      |
| Dichlorodifluoromethane        | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 05:16 | 75-71-8    |      |
| 1,1-Dichloroethane             | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 05:16 | 75-34-3    |      |
| 1,2-Dichloroethane             | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 05:16 | 107-06-2   |      |
| 1,1-Dichloroethene             | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 05:16 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 05:16 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 05:16 | 156-60-5   |      |
| 1,2-Dichloropropane            | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 05:16 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 05:16 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 05:16 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <211    | ug/kg  | 211  | 211  | 1  |          | 06/24/20 05:16 | 60-29-7    |      |
| Diisopropyl ether              | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 05:16 | 108-20-3   | N2   |
| Ethylbenzene                   | <52.7   | ug/kg  | 52.7 | 52.7 | 1  |          | 06/24/20 05:16 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 05:16 | 637-92-3   | N2   |
| Hexachloroethane               | <316    | ug/kg  | 316  | 316  | 1  |          | 06/24/20 05:16 | 67-72-1    | N2   |
| 2-Hexanone                     | <2640   | ug/kg  | 2640 | 2640 | 1  |          | 06/24/20 05:16 | 591-78-6   |      |
| Iodomethane                    | <105    | ug/kg  | 1050 | 105  | 1  |          | 06/24/20 05:16 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <264    | ug/kg  | 264  | 264  | 1  |          | 06/24/20 05:16 | 98-82-8    |      |
| p-Isopropyltoluene             | <26.4   | ug/kg  | 52.7 | 26.4 | 1  |          | 06/24/20 05:16 | 99-87-6    |      |
| Methylene Chloride             | <105    | ug/kg  | 105  | 105  | 1  |          | 06/24/20 05:16 | 75-09-2    |      |
| 2-Methylnaphthalene            | <348    | ug/kg  | 348  | 348  | 1  |          | 06/24/20 05:16 | 91-57-6    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-125 (4-5)**      **Lab ID: 50260268004**      Collected: 06/16/20 11:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| 4-Methyl-2-pentanone (MIBK)             | <2640   | ug/kg | 2640   | 2640 | 1  |          | 06/24/20 05:16 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <264    | ug/kg | 264    | 264  | 1  |          | 06/24/20 05:16 | 1634-04-4   |      |
| Naphthalene                             | <348    | ug/kg | 348    | 348  | 1  |          | 06/24/20 05:16 | 91-20-3     |      |
| n-Propylbenzene                         | <105    | ug/kg | 105    | 105  | 1  |          | 06/24/20 05:16 | 103-65-1    |      |
| Styrene                                 | <52.7   | ug/kg | 52.7   | 52.7 | 1  |          | 06/24/20 05:16 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <105    | ug/kg | 105    | 105  | 1  |          | 06/24/20 05:16 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <52.7   | ug/kg | 52.7   | 52.7 | 1  |          | 06/24/20 05:16 | 79-34-5     |      |
| Tetrachloroethene                       | <52.7   | ug/kg | 52.7   | 52.7 | 1  |          | 06/24/20 05:16 | 127-18-4    |      |
| Tetrahydrofuran                         | <1050   | ug/kg | 1050   | 1050 | 1  |          | 06/24/20 05:16 | 109-99-9    | N2   |
| Toluene                                 | <105    | ug/kg | 105    | 105  | 1  |          | 06/24/20 05:16 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <264    | ug/kg | 264    | 264  | 1  |          | 06/24/20 05:16 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <264    | ug/kg | 264    | 264  | 1  |          | 06/24/20 05:16 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <52.7   | ug/kg | 52.7   | 52.7 | 1  |          | 06/24/20 05:16 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <52.7   | ug/kg | 52.7   | 52.7 | 1  |          | 06/24/20 05:16 | 79-00-5     |      |
| Trichloroethene                         | <52.7   | ug/kg | 52.7   | 52.7 | 1  |          | 06/24/20 05:16 | 79-01-6     |      |
| Trichlorofluoromethane                  | <105    | ug/kg | 105    | 105  | 1  |          | 06/24/20 05:16 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <105    | ug/kg | 105    | 105  | 1  |          | 06/24/20 05:16 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <264    | ug/kg | 264    | 264  | 1  |          | 06/24/20 05:16 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <105    | ug/kg | 105    | 105  | 1  |          | 06/24/20 05:16 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <105    | ug/kg | 105    | 105  | 1  |          | 06/24/20 05:16 | 108-67-8    |      |
| Vinyl chloride                          | <42.2   | ug/kg | 42.2   | 42.2 | 1  |          | 06/24/20 05:16 | 75-01-4     |      |
| m&p-Xylene                              | <26.4   | ug/kg | 52.7   | 26.4 | 1  |          | 06/24/20 05:16 | 179601-23-1 |      |
| o-Xylene                                | <26.4   | ug/kg | 52.7   | 26.4 | 1  |          | 06/24/20 05:16 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 107     | %     | 62-137 |      | 1  |          | 06/24/20 05:16 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 102     | %     | 64-139 |      | 1  |          | 06/24/20 05:16 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 105     | %     | 60-142 |      | 1  |          | 06/24/20 05:16 | 460-00-4    |      |

**Percent Moisture**

Analytical Method: SM 2540G  
Pace Analytical Services - Indianapolis

|                  |     |   |      |      |   |  |                |  |  |
|------------------|-----|---|------|------|---|--|----------------|--|--|
| Percent Moisture | 5.7 | % | 0.10 | 0.10 | 1 |  | 06/23/20 13:45 |  |  |
|------------------|-----|---|------|------|---|--|----------------|--|--|

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

Sample: MW-126 (4-5) Lab ID: 50260268005 Collected: 06/15/20 10:20 Received: 06/18/20 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters  | Results  | Units | PQL    | MDL    | DF  | Prepared       | Analyzed       | CAS No.   | Qual |
|---|----------|-------|--------|--------|-----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                           |          |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                |          |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |          |       |        |        |     |                |                |           |      |
| n-Butanol   | <4610    | ug/kg | 4610   | 4610   | 1   |                | 06/22/20 16:34 | 71-36-3   |      |
| Ethanol   | <2620    | ug/kg | 2620   | 2620   | 1   |                | 06/22/20 16:34 | 64-17-5   |      |
| Methanol  | <4610    | ug/kg | 4610   | 4610   | 1   |                | 06/22/20 16:34 | 67-56-1   |      |
| <b>6010 MET ICP</b>                                       |          |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050  |          |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |          |       |        |        |     |                |                |           |      |
| Antimony  | <910     | ug/kg | 910    | 910    | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7440-36-0 |      |
| Arsenic   | 3710     | ug/kg | 1820   | 1820   | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7440-38-2 |      |
| Barium  | 12300    | ug/kg | 910    | 910    | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7440-39-3 |      |
| Beryllium   | <455     | ug/kg | 455    | 455    | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7440-41-7 |      |
| Boron   | <7280    | ug/kg | 7280   | 7280   | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7440-42-8 |      |
| Calcium   | 3580000  | ug/kg | 45500  | 6030   | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7440-70-2 |      |
| Chromium  | 24700    | ug/kg | 1820   | 1820   | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7440-47-3 |      |
| Copper  | 23000    | ug/kg | 910    | 910    | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7440-50-8 |      |
| Iron  | 58100000 | ug/kg | 114000 | 34600  | 5   | 06/26/20 14:44 | 06/29/20 12:45 | 7439-89-6 |      |
| Lead  | <9100    | ug/kg | 9100   | 9100   | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7439-92-1 |      |
| Magnesium   | 980000   | ug/kg | 22700  | 3640   | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7439-95-4 |      |
| Manganese   | 440000   | ug/kg | 910    | 910    | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7439-96-5 |      |
| Molybdenum  | 3830     | ug/kg | 910    | 910    | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7439-98-7 |      |
| Nickel  | 17700    | ug/kg | 910    | 910    | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7440-02-0 |      |
| Potassium   | 143000   | ug/kg | 45500  | 4450   | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7440-09-7 |      |
| Sodium  | 24500    | ug/kg | 22700  | 12400  | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7440-23-5 |      |
| Strontium   | 6300     | ug/kg | 4550   | 4550   | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7440-24-6 |      |
| Vanadium  | 8930     | ug/kg | 910    | 910    | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7440-62-2 |      |
| Zinc  | 16600    | ug/kg | 910    | 910    | 1   | 06/26/20 14:44 | 06/29/20 12:10 | 7440-66-6 |      |
| <b>6020 MET ICPMS</b>                                     |          |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B |          |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |          |       |        |        |     |                |                |           |      |
| Aluminum  | 4740000  | ug/kg | 104000 | 104000 | 100 | 06/24/20 09:22 | 06/30/20 00:55 | 7429-90-5 |      |
| Cadmium   | <208     | ug/kg | 208    | 208    | 1   | 06/24/20 09:22 | 06/25/20 14:54 | 7440-43-9 |      |
| Cobalt  | 1290     | ug/kg | 521    | 521    | 1   | 06/24/20 09:22 | 06/25/20 14:54 | 7440-48-4 |      |
| Selenium  | 245      | ug/kg | 208    | 208    | 1   | 06/24/20 09:22 | 06/25/20 14:54 | 7782-49-2 |      |
| Silver  | <104     | ug/kg | 104    | 104    | 1   | 06/24/20 09:22 | 06/25/20 14:54 | 7440-22-4 |      |
| Thallium  | <521     | ug/kg | 521    | 521    | 1   | 06/24/20 09:22 | 06/25/20 14:54 | 7440-28-0 |      |
| Titanium  | 187000   | ug/kg | 10400  | 2770   | 100 | 06/24/20 09:22 | 06/30/20 00:55 | 7440-32-6 | N2   |
| <b>7471 Mercury</b>                                       |          |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471  |          |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |          |       |        |        |     |                |                |           |      |
| Mercury   | <78.6    | ug/kg | 99.5   | 78.6   | 1   | 06/26/20 02:49 | 06/26/20 07:25 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                  |          |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546  |          |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |          |       |        |        |     |                |                |           |      |
| Acenaphthene  | <344     | ug/kg | 344    | 344    | 1   | 06/23/20 12:30 | 06/24/20 12:57 | 83-32-9   |      |
| Acenaphthylene  | <344     | ug/kg | 344    | 344    | 1   | 06/23/20 12:30 | 06/24/20 12:57 | 208-96-8  |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

Sample: MW-126 (4-5) Lab ID: 50260268005 Collected: 06/15/20 10:20 Received: 06/18/20 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters   | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                 |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |      |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |      |      |    |                |                |           |      |
| Anthracene   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 120-12-7  |      |
| Benzo(a)anthracene                                       | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 56-55-3   |      |
| Benzo(a)pyrene   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 50-32-8   |      |
| Benzo(b)fluoranthene                                     | 461     | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 205-99-2  |      |
| Benzo(g,h,i)perylene                                     | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 191-24-2  |      |
| Benzo(k)fluoranthene                                     | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 207-08-9  |      |
| 4-Bromophenylphenyl ether                                | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 101-55-3  |      |
| Butylbenzylphthalate                                     | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 85-68-7   |      |
| Carbazole  | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                  | <292    | ug/kg | 344  | 292  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                               | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                 | <167    | ug/kg | 344  | 167  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                             | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 108-60-1  |      |
| 2-Chloronaphthalene                                      | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 91-58-7   |      |
| 2-Chlorophenol   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                               | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 7005-72-3 |      |
| Chrysene   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                    | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 53-70-3   |      |
| Dibenzofuran   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 132-64-9  |      |
| 2,4-Dichlorophenol                                       | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 120-83-2  |      |
| Diethylphthalate   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 84-66-2   |      |
| 2,4-Dimethylphenol                                       | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 105-67-9  |      |
| Dimethylphthalate  | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 131-11-3  |      |
| Di-n-butylphthalate                                      | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                               | <864    | ug/kg | 864  | 864  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 534-52-1  |      |
| 2,4-Dinitrophenol  | <1670   | ug/kg | 1670 | 1670 | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 51-28-5   |      |
| 2,4-Dinitrotoluene                                       | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 121-14-2  |      |
| 2,6-Dinitrotoluene                                       | <92.1   | ug/kg | 344  | 92.1 | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 606-20-2  |      |
| Di-n-octylphthalate                                      | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                    | <1670   | ug/kg | 1670 | 1670 | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate                               | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 117-81-7  |      |
| Fluoranthene   | 426     | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 206-44-0  |      |
| Fluorene   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                 | <100    | ug/kg | 344  | 100  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 87-68-3   |      |
| Hexachlorobenzene  | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                | <1040   | ug/kg | 1040 | 1040 | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 77-47-4   |      |
| Hexachloroethane   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 193-39-5  |      |
| Isophorone   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 78-59-1   |      |
| 2-Methylnaphthalene                                      | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                 | <1040   | ug/kg | 1040 | 1040 | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                             | <1040   | ug/kg | 1040 | 1040 | 1  | 06/23/20 12:30 | 06/24/20 12:57 |           |      |
| Naphthalene  | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 91-20-3   |      |
| 2-Nitroaniline   | <344    | ug/kg | 344  | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 88-74-4   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-126 (4-5)**      **Lab ID: 50260268005**      Collected: 06/15/20 10:20      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                 |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |        |      |    |                |                |           |      |
| 3-Nitroaniline   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 99-09-2   |      |
| 4-Nitroaniline   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 100-01-6  |      |
| Nitrobenzene   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 98-95-3   |      |
| 2-Nitrophenol  | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 88-75-5   |      |
| 4-Nitrophenol  | <1670   | ug/kg | 1670   | 1670 | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 100-02-7  |      |
| N-Nitrosodimethylamine                                   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                               | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 86-30-6   |      |
| Pentachlorophenol  | <1530   | ug/kg | 1670   | 1530 | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 87-86-5   |      |
| Phenanthrene   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 85-01-8   |      |
| Phenol   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 108-95-2  |      |
| Pyrene   | 436     | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                   | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                    | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                    | <344    | ug/kg | 344    | 344  | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)                                      | 59      | %     | 26-96  |      | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 4165-60-0 |      |
| Phenol-d5 (S)  | 77      | %     | 32-93  |      | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 4165-62-2 |      |
| 2-Fluorophenol (S)                                       | 78      | %     | 24-95  |      | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                 | 77      | %     | 20-109 |      | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 118-79-6  |      |
| 2-Fluorobiphenyl (S)                                     | 75      | %     | 36-91  |      | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 321-60-8  |      |
| p-Terphenyl-d14 (S)                                      | 88      | %     | 27-117 |      | 1  | 06/23/20 12:30 | 06/24/20 12:57 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                           |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                              |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |        |      |    |                |                |           |      |
| Acetone  | <950    | ug/kg | 950    | 950  | 1  |                | 06/24/20 05:50 | 67-64-1   |      |
| Acrylonitrile  | <95.0   | ug/kg | 95.0   | 95.0 | 1  |                | 06/24/20 05:50 | 107-13-1  |      |
| tert-Amylmethyl ether                                    | <237    | ug/kg | 237    | 237  | 1  |                | 06/24/20 05:50 | 994-05-8  | N2   |
| Benzene  | <47.5   | ug/kg | 47.5   | 47.5 | 1  |                | 06/24/20 05:50 | 71-43-2   |      |
| Bromobenzene   | <95.0   | ug/kg | 95.0   | 95.0 | 1  |                | 06/24/20 05:50 | 108-86-1  |      |
| Bromochloromethane                                       | <23.7   | ug/kg | 47.5   | 23.7 | 1  |                | 06/24/20 05:50 | 74-97-5   |      |
| Bromodichloromethane                                     | <95.0   | ug/kg | 95.0   | 95.0 | 1  |                | 06/24/20 05:50 | 75-27-4   |      |
| Bromoform  | <95.0   | ug/kg | 95.0   | 95.0 | 1  |                | 06/24/20 05:50 | 75-25-2   |      |
| Bromomethane   | <190    | ug/kg | 190    | 190  | 1  |                | 06/24/20 05:50 | 74-83-9   |      |
| 2-Butanone (MEK)   | <712    | ug/kg | 712    | 712  | 1  |                | 06/24/20 05:50 | 78-93-3   |      |
| tert-Butyl Alcohol                                       | <2370   | ug/kg | 2370   | 2370 | 1  |                | 06/24/20 05:50 | 75-65-0   |      |
| n-Butylbenzene   | <47.5   | ug/kg | 47.5   | 47.5 | 1  |                | 06/24/20 05:50 | 104-51-8  |      |
| sec-Butylbenzene   | <47.5   | ug/kg | 47.5   | 47.5 | 1  |                | 06/24/20 05:50 | 135-98-8  |      |
| tert-Butylbenzene  | <47.5   | ug/kg | 47.5   | 47.5 | 1  |                | 06/24/20 05:50 | 98-06-6   |      |
| Carbon disulfide   | <237    | ug/kg | 237    | 237  | 1  |                | 06/24/20 05:50 | 75-15-0   |      |
| Carbon tetrachloride                                     | <47.5   | ug/kg | 47.5   | 47.5 | 1  |                | 06/24/20 05:50 | 56-23-5   |      |
| Chlorobenzene  | <47.5   | ug/kg | 47.5   | 47.5 | 1  |                | 06/24/20 05:50 | 108-90-7  |      |
| Chloroethane   | <237    | ug/kg | 237    | 237  | 1  |                | 06/24/20 05:50 | 75-00-3   |      |
| Chloroform   | <47.5   | ug/kg | 47.5   | 47.5 | 1  |                | 06/24/20 05:50 | 67-66-3   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-126 (4-5)**      **Lab ID: 50260268005**      Collected: 06/15/20 10:20      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Chloromethane                  | <237    | ug/kg  | 237  | 237  | 1  |          | 06/24/20 05:50 | 74-87-3    |      |
| Cyclohexane                    | <475    | ug/kg  | 475  | 475  | 1  |          | 06/24/20 05:50 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <47.5   | ug/kg  | 47.5 | 47.5 | 1  |          | 06/24/20 05:50 | 96-12-8    |      |
| Dibromochloromethane           | <95.0   | ug/kg  | 95.0 | 95.0 | 1  |          | 06/24/20 05:50 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <47.5   | ug/kg  | 47.5 | 47.5 | 1  |          | 06/24/20 05:50 | 106-93-4   |      |
| Dibromomethane                 | <237    | ug/kg  | 237  | 237  | 1  |          | 06/24/20 05:50 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <95.0   | ug/kg  | 95.0 | 95.0 | 1  |          | 06/24/20 05:50 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <95.0   | ug/kg  | 95.0 | 95.0 | 1  |          | 06/24/20 05:50 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <95.0   | ug/kg  | 95.0 | 95.0 | 1  |          | 06/24/20 05:50 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <95.0   | ug/kg  | 950  | 95.0 | 1  |          | 06/24/20 05:50 | 110-57-6   |      |
| Dichlorodifluoromethane        | <237    | ug/kg  | 237  | 237  | 1  |          | 06/24/20 05:50 | 75-71-8    |      |
| 1,1-Dichloroethane             | <47.5   | ug/kg  | 47.5 | 47.5 | 1  |          | 06/24/20 05:50 | 75-34-3    |      |
| 1,2-Dichloroethane             | <47.5   | ug/kg  | 47.5 | 47.5 | 1  |          | 06/24/20 05:50 | 107-06-2   |      |
| 1,1-Dichloroethene             | <47.5   | ug/kg  | 47.5 | 47.5 | 1  |          | 06/24/20 05:50 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <47.5   | ug/kg  | 47.5 | 47.5 | 1  |          | 06/24/20 05:50 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <47.5   | ug/kg  | 47.5 | 47.5 | 1  |          | 06/24/20 05:50 | 156-60-5   |      |
| 1,2-Dichloropropane            | <47.5   | ug/kg  | 47.5 | 47.5 | 1  |          | 06/24/20 05:50 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <95.0   | ug/kg  | 95.0 | 95.0 | 1  |          | 06/24/20 05:50 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <95.0   | ug/kg  | 95.0 | 95.0 | 1  |          | 06/24/20 05:50 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <190    | ug/kg  | 190  | 190  | 1  |          | 06/24/20 05:50 | 60-29-7    |      |
| Diisopropyl ether              | <237    | ug/kg  | 237  | 237  | 1  |          | 06/24/20 05:50 | 108-20-3   | N2   |
| Ethylbenzene                   | <47.5   | ug/kg  | 47.5 | 47.5 | 1  |          | 06/24/20 05:50 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <237    | ug/kg  | 237  | 237  | 1  |          | 06/24/20 05:50 | 637-92-3   | N2   |
| Hexachloroethane               | <285    | ug/kg  | 285  | 285  | 1  |          | 06/24/20 05:50 | 67-72-1    | N2   |
| 2-Hexanone                     | <2370   | ug/kg  | 2370 | 2370 | 1  |          | 06/24/20 05:50 | 591-78-6   |      |
| Iodomethane                    | <95.0   | ug/kg  | 950  | 95.0 | 1  |          | 06/24/20 05:50 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <237    | ug/kg  | 237  | 237  | 1  |          | 06/24/20 05:50 | 98-82-8    |      |
| p-Isopropyltoluene             | <23.7   | ug/kg  | 47.5 | 23.7 | 1  |          | 06/24/20 05:50 | 99-87-6    |      |
| Methylene Chloride             | <95.0   | ug/kg  | 95.0 | 95.0 | 1  |          | 06/24/20 05:50 | 75-09-2    |      |
| 2-Methylnaphthalene            | <313    | ug/kg  | 313  | 313  | 1  |          | 06/24/20 05:50 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)    | <2370   | ug/kg  | 2370 | 2370 | 1  |          | 06/24/20 05:50 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <237    | ug/kg  | 237  | 237  | 1  |          | 06/24/20 05:50 | 1634-04-4  |      |
| Naphthalene                    | <313    | ug/kg  | 313  | 313  | 1  |          | 06/24/20 05:50 | 91-20-3    |      |
| n-Propylbenzene                | <95.0   | ug/kg  | 95.0 | 95.0 | 1  |          | 06/24/20 05:50 | 103-65-1   |      |
| Styrene                        | <47.5   | ug/kg  | 47.5 | 47.5 | 1  |          | 06/24/20 05:50 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <95.0   | ug/kg  | 95.0 | 95.0 | 1  |          | 06/24/20 05:50 | 630-20-6   |      |
| 1,1,1,2,2-Tetrachloroethane    | <47.5   | ug/kg  | 47.5 | 47.5 | 1  |          | 06/24/20 05:50 | 79-34-5    |      |
| Tetrachloroethene              | <47.5   | ug/kg  | 47.5 | 47.5 | 1  |          | 06/24/20 05:50 | 127-18-4   |      |
| Tetrahydrofuran                | <950    | ug/kg  | 950  | 950  | 1  |          | 06/24/20 05:50 | 109-99-9   | N2   |
| Toluene                        | <95.0   | ug/kg  | 95.0 | 95.0 | 1  |          | 06/24/20 05:50 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene         | <237    | ug/kg  | 237  | 237  | 1  |          | 06/24/20 05:50 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene         | <237    | ug/kg  | 237  | 237  | 1  |          | 06/24/20 05:50 | 120-82-1   |      |
| 1,1,1-Trichloroethane          | <47.5   | ug/kg  | 47.5 | 47.5 | 1  |          | 06/24/20 05:50 | 71-55-6    |      |
| 1,1,2-Trichloroethane          | <47.5   | ug/kg  | 47.5 | 47.5 | 1  |          | 06/24/20 05:50 | 79-00-5    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-126 (4-5)**      **Lab ID: 50260268005**      Collected: 06/15/20 10:20      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>                             |         |       |        |      |    |                |                |             |      |
| Analytical Method: EPA 8260                                |         |       |        |      |    |                |                |             |      |
| Pace Analytical Services - Indianapolis                    |         |       |        |      |    |                |                |             |      |
| Trichloroethene  | <47.5   | ug/kg | 47.5   | 47.5 | 1  |                | 06/24/20 05:50 | 79-01-6     |      |
| Trichlorofluoromethane                                     | <95.0   | ug/kg | 95.0   | 95.0 | 1  |                | 06/24/20 05:50 | 75-69-4     |      |
| 1,2,3-Trichloropropane                                     | <95.0   | ug/kg | 95.0   | 95.0 | 1  |                | 06/24/20 05:50 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                                     | <237    | ug/kg | 237    | 237  | 1  |                | 06/24/20 05:50 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                                     | <95.0   | ug/kg | 95.0   | 95.0 | 1  |                | 06/24/20 05:50 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                                     | <95.0   | ug/kg | 95.0   | 95.0 | 1  |                | 06/24/20 05:50 | 108-67-8    |      |
| Vinyl chloride   | <38.0   | ug/kg | 38.0   | 38.0 | 1  |                | 06/24/20 05:50 | 75-01-4     |      |
| m&p-Xylene   | <23.7   | ug/kg | 47.5   | 23.7 | 1  |                | 06/24/20 05:50 | 179601-23-1 |      |
| o-Xylene   | <23.7   | ug/kg | 47.5   | 23.7 | 1  |                | 06/24/20 05:50 | 95-47-6     |      |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |             |      |
| Dibromofluoromethane (S)                                   | 103     | %     | 62-137 |      | 1  |                | 06/24/20 05:50 | 1868-53-7   |      |
| Toluene-d8 (S)   | 101     | %     | 64-139 |      | 1  |                | 06/24/20 05:50 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                                   | 105     | %     | 60-142 |      | 1  |                | 06/24/20 05:50 | 460-00-4    |      |
| <b>Percent Moisture</b>                                    |         |       |        |      |    |                |                |             |      |
| Analytical Method: SM 2540G                                |         |       |        |      |    |                |                |             |      |
| Pace Analytical Services - Indianapolis                    |         |       |        |      |    |                |                |             |      |
| Percent Moisture   | 4.6     | %     | 0.10   | 0.10 | 1  |                | 06/23/20 13:45 |             |      |
| <b>7196 Chromium, Hexavalent</b>                           |         |       |        |      |    |                |                |             |      |
| Analytical Method: EPA 7196A Preparation Method: EPA 3060A |         |       |        |      |    |                |                |             |      |
| Pace Analytical Services - Indianapolis                    |         |       |        |      |    |                |                |             |      |
| Chromium, Hexavalent                                       | <2.1    | mg/kg | 2.1    | 2.1  | 1  | 07/06/20 10:50 | 07/07/20 16:14 | 18540-29-9  |      |
| <b>Trivalent Chromium Calculation</b>                      |         |       |        |      |    |                |                |             |      |
| Analytical Method: Trivalent Chromium Calculation          |         |       |        |      |    |                |                |             |      |
| Pace Analytical Services - Indianapolis                    |         |       |        |      |    |                |                |             |      |
| Chromium, Trivalent  | 24.7    | mg/kg | 1.0    |      | 1  |                | 07/10/20 14:23 | 16065-83-1  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-126 (7.5-8.5')**      **Lab ID: 50260268006**      Collected: 06/15/20 10:30      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL   | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|-------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                     |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |       |       |    |                |                |           |      |
| n-Butanol  | <4710   | ug/kg | 4710  | 4710  | 1  |                | 06/22/20 16:43 | 71-36-3   |      |
| Ethanol  | <2670   | ug/kg | 2670  | 2670  | 1  |                | 06/22/20 16:43 | 64-17-5   |      |
| Methanol   | <4710   | ug/kg | 4710  | 4710  | 1  |                | 06/22/20 16:43 | 67-56-1   |      |
| <b>6010 MET ICP</b>  |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050  |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |       |       |    |                |                |           |      |
| Antimony   | <1020   | ug/kg | 1020  | 1020  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7440-36-0 |      |
| Arsenic  | <2040   | ug/kg | 2040  | 2040  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7440-38-2 |      |
| Barium   | 8970    | ug/kg | 1020  | 1020  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7440-39-3 |      |
| Beryllium  | <511    | ug/kg | 511   | 511   | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7440-41-7 |      |
| Boron  | <8180   | ug/kg | 8180  | 8180  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7440-42-8 |      |
| Calcium  | 1790000 | ug/kg | 51100 | 6780  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7440-70-2 |      |
| Chromium   | 5810    | ug/kg | 2040  | 2040  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7440-47-3 |      |
| Copper   | 3020    | ug/kg | 1020  | 1020  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7440-50-8 |      |
| Iron   | 4180000 | ug/kg | 25600 | 7770  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7439-89-6 |      |
| Lead   | <10200  | ug/kg | 10200 | 10200 | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7439-92-1 |      |
| Magnesium  | 988000  | ug/kg | 25600 | 4090  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7439-95-4 |      |
| Manganese  | 79400   | ug/kg | 1020  | 1020  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7439-96-5 |      |
| Molybdenum   | <1020   | ug/kg | 1020  | 1020  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7439-98-7 |      |
| Nickel   | 3960    | ug/kg | 1020  | 1020  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7440-02-0 |      |
| Potassium  | 175000  | ug/kg | 51100 | 5000  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7440-09-7 |      |
| Sodium   | 23900J  | ug/kg | 25600 | 13900 | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7440-23-5 |      |
| Strontium  | <5110   | ug/kg | 5110  | 5110  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7440-24-6 |      |
| Vanadium   | 8380    | ug/kg | 1020  | 1020  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7440-62-2 |      |
| Zinc   | 11600   | ug/kg | 1020  | 1020  | 1  | 06/26/20 14:44 | 06/29/20 12:16 | 7440-66-6 |      |
| <b>6020 MET ICPMS</b>  |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |       |       |    |                |                |           |      |
| Aluminum   | 2850000 | ug/kg | 52800 | 52800 | 50 | 06/24/20 09:22 | 06/30/20 00:59 | 7429-90-5 |      |
| Cadmium  | <211    | ug/kg | 211   | 211   | 1  | 06/24/20 09:22 | 06/25/20 15:03 | 7440-43-9 |      |
| Cobalt   | 1710    | ug/kg | 528   | 528   | 1  | 06/24/20 09:22 | 06/25/20 15:03 | 7440-48-4 |      |
| Selenium   | <1060   | ug/kg | 1060  | 1060  | 5  | 06/24/20 09:22 | 06/30/20 02:40 | 7782-49-2 | D3   |
| Silver   | <106    | ug/kg | 106   | 106   | 1  | 06/24/20 09:22 | 06/25/20 15:03 | 7440-22-4 |      |
| Thallium   | <528    | ug/kg | 528   | 528   | 1  | 06/24/20 09:22 | 06/25/20 15:03 | 7440-28-0 |      |
| Titanium   | 159000  | ug/kg | 5280  | 1400  | 50 | 06/24/20 09:22 | 06/30/20 00:59 | 7440-32-6 | N2   |
| <b>7471 Mercury</b>  |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 7471      Preparation Method: EPA 7471  |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |       |       |    |                |                |           |      |
| Mercury  | <87.7   | ug/kg | 111   | 87.7  | 1  | 06/26/20 02:49 | 06/26/20 07:28 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                       |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 8270      Preparation Method: EPA 3546  |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |       |       |    |                |                |           |      |
| Acenaphthene   | <333    | ug/kg | 333   | 333   | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 83-32-9   |      |
| Acenaphthylene   | <333    | ug/kg | 333   | 333   | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 208-96-8  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

Sample: MW-126 (7.5-8.5') Lab ID: 50260268006 Collected: 06/15/20 10:30 Received: 06/18/20 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters   | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                 |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |      |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |      |      |    |                |                |           |      |
| Anthracene   | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 120-12-7  |      |
| Benzo(a)anthracene                                       | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 56-55-3   |      |
| Benzo(a)pyrene   | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 50-32-8   |      |
| Benzo(b)fluoranthene                                     | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 205-99-2  |      |
| Benzo(g,h,i)perylene                                     | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 191-24-2  |      |
| Benzo(k)fluoranthene                                     | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 207-08-9  |      |
| 4-Bromophenylphenyl ether                                | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 101-55-3  |      |
| Butylbenzylphthalate                                     | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 85-68-7   |      |
| Carbazole  | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                  | <282    | ug/kg | 333  | 282  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                               | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                 | <161    | ug/kg | 333  | 161  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                             | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 108-60-1  |      |
| 2-Chloronaphthalene                                      | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 91-58-7   |      |
| 2-Chlorophenol   | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                               | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 7005-72-3 |      |
| Chrysene   | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                    | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 53-70-3   |      |
| Dibenzofuran   | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 132-64-9  |      |
| 2,4-Dichlorophenol                                       | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 120-83-2  |      |
| Diethylphthalate   | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 84-66-2   |      |
| 2,4-Dimethylphenol                                       | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 105-67-9  |      |
| Dimethylphthalate  | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 131-11-3  |      |
| Di-n-butylphthalate                                      | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                               | <837    | ug/kg | 837  | 837  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 534-52-1  |      |
| 2,4-Dinitrophenol  | <1610   | ug/kg | 1610 | 1610 | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 51-28-5   |      |
| 2,4-Dinitrotoluene                                       | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 121-14-2  |      |
| 2,6-Dinitrotoluene                                       | <89.3   | ug/kg | 333  | 89.3 | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 606-20-2  |      |
| Di-n-octylphthalate                                      | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                    | <1610   | ug/kg | 1610 | 1610 | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate                               | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 117-81-7  |      |
| Fluoranthene   | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 206-44-0  |      |
| Fluorene   | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                 | <96.9   | ug/kg | 333  | 96.9 | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 87-68-3   |      |
| Hexachlorobenzene  | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                | <1010   | ug/kg | 1010 | 1010 | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 77-47-4   |      |
| Hexachloroethane   | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                   | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 193-39-5  |      |
| Isophorone   | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 78-59-1   |      |
| 2-Methylnaphthalene                                      | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                 | <1010   | ug/kg | 1010 | 1010 | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                             | <1010   | ug/kg | 1010 | 1010 | 1  | 06/23/20 12:30 | 06/24/20 13:14 |           |      |
| Naphthalene  | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 91-20-3   |      |
| 2-Nitroaniline   | <333    | ug/kg | 333  | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 88-74-4   |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-126 (7.5-8.5')**      **Lab ID: 50260268006**      Collected: 06/15/20 10:30      Received: 06/18/20 09:25      Matrix: Solid  
*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                    |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| 3-Nitroaniline  | <333    | ug/kg | 333    | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 99-09-2   |      |
| 4-Nitroaniline  | <333    | ug/kg | 333    | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 100-01-6  |      |
| Nitrobenzene  | <333    | ug/kg | 333    | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 98-95-3   |      |
| 2-Nitrophenol   | <333    | ug/kg | 333    | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 88-75-5   |      |
| 4-Nitrophenol   | <1610   | ug/kg | 1610   | 1610 | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 100-02-7  |      |
| N-Nitrosodimethylamine                                      | <333    | ug/kg | 333    | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                                  | <333    | ug/kg | 333    | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                      | <333    | ug/kg | 333    | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 86-30-6   |      |
| Pentachlorophenol   | <1480   | ug/kg | 1610   | 1480 | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 87-86-5   |      |
| Phenanthrene  | <333    | ug/kg | 333    | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 85-01-8   |      |
| Phenol  | <333    | ug/kg | 333    | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 108-95-2  |      |
| Pyrene  | <333    | ug/kg | 333    | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                      | <333    | ug/kg | 333    | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                       | <333    | ug/kg | 333    | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                       | <333    | ug/kg | 333    | 333  | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 88-06-2   |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)   | 53      | %     | 26-96  |      | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 4165-60-0 |      |
| Phenol-d5 (S)   | 81      | %     | 32-93  |      | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 4165-62-2 |      |
| 2-Fluorophenol (S)  | 82      | %     | 24-95  |      | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                    | 75      | %     | 20-109 |      | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 118-79-6  |      |
| 2-Fluorobiphenyl (S)  | 68      | %     | 36-91  |      | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 93      | %     | 27-117 |      | 1  | 06/23/20 12:30 | 06/24/20 13:14 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                              |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                                 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| Acetone   | <995    | ug/kg | 995    | 995  | 1  |                | 06/24/20 06:23 | 67-64-1   |      |
| Acrylonitrile   | <99.5   | ug/kg | 99.5   | 99.5 | 1  |                | 06/24/20 06:23 | 107-13-1  |      |
| tert-Amylmethyl ether                                       | <249    | ug/kg | 249    | 249  | 1  |                | 06/24/20 06:23 | 994-05-8  | N2   |
| Benzene   | <49.7   | ug/kg | 49.7   | 49.7 | 1  |                | 06/24/20 06:23 | 71-43-2   |      |
| Bromobenzene  | <99.5   | ug/kg | 99.5   | 99.5 | 1  |                | 06/24/20 06:23 | 108-86-1  |      |
| Bromochloromethane  | <24.9   | ug/kg | 49.7   | 24.9 | 1  |                | 06/24/20 06:23 | 74-97-5   |      |
| Bromodichloromethane  | <99.5   | ug/kg | 99.5   | 99.5 | 1  |                | 06/24/20 06:23 | 75-27-4   |      |
| Bromoform   | <99.5   | ug/kg | 99.5   | 99.5 | 1  |                | 06/24/20 06:23 | 75-25-2   |      |
| Bromomethane  | <199    | ug/kg | 199    | 199  | 1  |                | 06/24/20 06:23 | 74-83-9   |      |
| 2-Butanone (MEK)  | <746    | ug/kg | 746    | 746  | 1  |                | 06/24/20 06:23 | 78-93-3   |      |
| tert-Butyl Alcohol  | <2490   | ug/kg | 2490   | 2490 | 1  |                | 06/24/20 06:23 | 75-65-0   |      |
| n-Butylbenzene  | <49.7   | ug/kg | 49.7   | 49.7 | 1  |                | 06/24/20 06:23 | 104-51-8  |      |
| sec-Butylbenzene  | <49.7   | ug/kg | 49.7   | 49.7 | 1  |                | 06/24/20 06:23 | 135-98-8  |      |
| tert-Butylbenzene   | <49.7   | ug/kg | 49.7   | 49.7 | 1  |                | 06/24/20 06:23 | 98-06-6   |      |
| Carbon disulfide  | <249    | ug/kg | 249    | 249  | 1  |                | 06/24/20 06:23 | 75-15-0   |      |
| Carbon tetrachloride  | <49.7   | ug/kg | 49.7   | 49.7 | 1  |                | 06/24/20 06:23 | 56-23-5   |      |
| Chlorobenzene   | <49.7   | ug/kg | 49.7   | 49.7 | 1  |                | 06/24/20 06:23 | 108-90-7  |      |
| Chloroethane  | <249    | ug/kg | 249    | 249  | 1  |                | 06/24/20 06:23 | 75-00-3   |      |
| Chloroform  | <49.7   | ug/kg | 49.7   | 49.7 | 1  |                | 06/24/20 06:23 | 67-66-3   |      |

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-126 (7.5-8.5')**      **Lab ID: 50260268006**      Collected: 06/15/20 10:30      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Chloromethane                  | <249    | ug/kg  | 249  | 249  | 1  |          | 06/24/20 06:23 | 74-87-3    |      |
| Cyclohexane                    | <497    | ug/kg  | 497  | 497  | 1  |          | 06/24/20 06:23 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <49.7   | ug/kg  | 49.7 | 49.7 | 1  |          | 06/24/20 06:23 | 96-12-8    |      |
| Dibromochloromethane           | <99.5   | ug/kg  | 99.5 | 99.5 | 1  |          | 06/24/20 06:23 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <49.7   | ug/kg  | 49.7 | 49.7 | 1  |          | 06/24/20 06:23 | 106-93-4   |      |
| Dibromomethane                 | <249    | ug/kg  | 249  | 249  | 1  |          | 06/24/20 06:23 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <99.5   | ug/kg  | 99.5 | 99.5 | 1  |          | 06/24/20 06:23 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <99.5   | ug/kg  | 99.5 | 99.5 | 1  |          | 06/24/20 06:23 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <99.5   | ug/kg  | 99.5 | 99.5 | 1  |          | 06/24/20 06:23 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <99.5   | ug/kg  | 99.5 | 99.5 | 1  |          | 06/24/20 06:23 | 110-57-6   |      |
| Dichlorodifluoromethane        | <249    | ug/kg  | 249  | 249  | 1  |          | 06/24/20 06:23 | 75-71-8    |      |
| 1,1-Dichloroethane             | <49.7   | ug/kg  | 49.7 | 49.7 | 1  |          | 06/24/20 06:23 | 75-34-3    |      |
| 1,2-Dichloroethane             | <49.7   | ug/kg  | 49.7 | 49.7 | 1  |          | 06/24/20 06:23 | 107-06-2   |      |
| 1,1-Dichloroethene             | <49.7   | ug/kg  | 49.7 | 49.7 | 1  |          | 06/24/20 06:23 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <49.7   | ug/kg  | 49.7 | 49.7 | 1  |          | 06/24/20 06:23 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <49.7   | ug/kg  | 49.7 | 49.7 | 1  |          | 06/24/20 06:23 | 156-60-5   |      |
| 1,2-Dichloropropane            | <49.7   | ug/kg  | 49.7 | 49.7 | 1  |          | 06/24/20 06:23 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <99.5   | ug/kg  | 99.5 | 99.5 | 1  |          | 06/24/20 06:23 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <99.5   | ug/kg  | 99.5 | 99.5 | 1  |          | 06/24/20 06:23 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <199    | ug/kg  | 199  | 199  | 1  |          | 06/24/20 06:23 | 60-29-7    |      |
| Diisopropyl ether              | <249    | ug/kg  | 249  | 249  | 1  |          | 06/24/20 06:23 | 108-20-3   | N2   |
| Ethylbenzene                   | <49.7   | ug/kg  | 49.7 | 49.7 | 1  |          | 06/24/20 06:23 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <249    | ug/kg  | 249  | 249  | 1  |          | 06/24/20 06:23 | 637-92-3   | N2   |
| Hexachloroethane               | <298    | ug/kg  | 298  | 298  | 1  |          | 06/24/20 06:23 | 67-72-1    | N2   |
| 2-Hexanone                     | <2490   | ug/kg  | 2490 | 2490 | 1  |          | 06/24/20 06:23 | 591-78-6   |      |
| Iodomethane                    | <99.5   | ug/kg  | 99.5 | 99.5 | 1  |          | 06/24/20 06:23 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <249    | ug/kg  | 249  | 249  | 1  |          | 06/24/20 06:23 | 98-82-8    |      |
| p-Isopropyltoluene             | <24.9   | ug/kg  | 49.7 | 24.9 | 1  |          | 06/24/20 06:23 | 99-87-6    |      |
| Methylene Chloride             | <99.5   | ug/kg  | 99.5 | 99.5 | 1  |          | 06/24/20 06:23 | 75-09-2    |      |
| 2-Methylnaphthalene            | <328    | ug/kg  | 328  | 328  | 1  |          | 06/24/20 06:23 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)    | <2490   | ug/kg  | 2490 | 2490 | 1  |          | 06/24/20 06:23 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <249    | ug/kg  | 249  | 249  | 1  |          | 06/24/20 06:23 | 1634-04-4  |      |
| Naphthalene                    | <328    | ug/kg  | 328  | 328  | 1  |          | 06/24/20 06:23 | 91-20-3    |      |
| n-Propylbenzene                | <99.5   | ug/kg  | 99.5 | 99.5 | 1  |          | 06/24/20 06:23 | 103-65-1   |      |
| Styrene                        | <49.7   | ug/kg  | 49.7 | 49.7 | 1  |          | 06/24/20 06:23 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <99.5   | ug/kg  | 99.5 | 99.5 | 1  |          | 06/24/20 06:23 | 630-20-6   |      |
| 1,1,1,2,2-Tetrachloroethane    | <49.7   | ug/kg  | 49.7 | 49.7 | 1  |          | 06/24/20 06:23 | 79-34-5    |      |
| Tetrachloroethene              | <49.7   | ug/kg  | 49.7 | 49.7 | 1  |          | 06/24/20 06:23 | 127-18-4   |      |
| Tetrahydrofuran                | <99.5   | ug/kg  | 99.5 | 99.5 | 1  |          | 06/24/20 06:23 | 109-99-9   | N2   |
| Toluene                        | <99.5   | ug/kg  | 99.5 | 99.5 | 1  |          | 06/24/20 06:23 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene         | <249    | ug/kg  | 249  | 249  | 1  |          | 06/24/20 06:23 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene         | <249    | ug/kg  | 249  | 249  | 1  |          | 06/24/20 06:23 | 120-82-1   |      |
| 1,1,1-Trichloroethane          | <49.7   | ug/kg  | 49.7 | 49.7 | 1  |          | 06/24/20 06:23 | 71-55-6    |      |
| 1,1,2-Trichloroethane          | <49.7   | ug/kg  | 49.7 | 49.7 | 1  |          | 06/24/20 06:23 | 79-00-5    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-126 (7.5-8.5')**      **Lab ID: 50260268006**      Collected: 06/15/20 10:30      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|---------|--|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Trichloroethene                | <49.7   | ug/kg  | 49.7   | 49.7 | 1  |          | 06/24/20 06:23 | 79-01-6     |      |
| Trichlorofluoromethane         | <99.5   | ug/kg  | 99.5   | 99.5 | 1  |          | 06/24/20 06:23 | 75-69-4     |      |
| 1,2,3-Trichloropropane         | <99.5   | ug/kg  | 99.5   | 99.5 | 1  |          | 06/24/20 06:23 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene         | <249    | ug/kg  | 249    | 249  | 1  |          | 06/24/20 06:23 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene         | <99.5   | ug/kg  | 99.5   | 99.5 | 1  |          | 06/24/20 06:23 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | <99.5   | ug/kg  | 99.5   | 99.5 | 1  |          | 06/24/20 06:23 | 108-67-8    |      |
| Vinyl chloride                 | <39.8   | ug/kg  | 39.8   | 39.8 | 1  |          | 06/24/20 06:23 | 75-01-4     |      |
| m&p-Xylene                     | <24.9   | ug/kg  | 49.7   | 24.9 | 1  |          | 06/24/20 06:23 | 179601-23-1 |      |
| o-Xylene                       | <24.9   | ug/kg  | 49.7   | 24.9 | 1  |          | 06/24/20 06:23 | 95-47-6     |      |
| <b>Surrogates</b>              |         |  |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)       | 107     | %  | 62-137 |      | 1  |          | 06/24/20 06:23 | 1868-53-7   |      |
| Toluene-d8 (S)                 | 99      | %  | 64-139 |      | 1  |          | 06/24/20 06:23 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)       | 105     | %  | 60-142 |      | 1  |          | 06/24/20 06:23 | 460-00-4    |      |
| <b>Percent Moisture</b>        |         | Analytical Method: SM 2540G<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Percent Moisture               | 6.5     | %  | 0.10   | 0.10 | 1  |          | 06/23/20 13:46 |             |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

Sample: MW-127 (6-7) Lab ID: 50260268007 Collected: 06/15/20 11:30 Received: 06/18/20 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters  | Results | Units | PQL   | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|-------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                           |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |       |    |                |                |           |      |
| n-Butanol   | <4990   | ug/kg | 4990  | 4990  | 1  |                | 06/22/20 16:52 | 71-36-3   |      |
| Ethanol   | <2830   | ug/kg | 2830  | 2830  | 1  |                | 06/22/20 16:52 | 64-17-5   |      |
| Methanol  | <4990   | ug/kg | 4990  | 4990  | 1  |                | 06/22/20 16:52 | 67-56-1   |      |
| <b>6010 MET ICP</b>                                       |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050  |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |       |    |                |                |           |      |
| Antimony  | <1040   | ug/kg | 1040  | 1040  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7440-36-0 |      |
| Arsenic   | <2080   | ug/kg | 2080  | 2080  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7440-38-2 |      |
| Barium  | 7000    | ug/kg | 1040  | 1040  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7440-39-3 |      |
| Beryllium   | <519    | ug/kg | 519   | 519   | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7440-41-7 |      |
| Boron   | <8310   | ug/kg | 8310  | 8310  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7440-42-8 |      |
| Calcium   | 842000  | ug/kg | 51900 | 6880  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7440-70-2 |      |
| Chromium  | 4330    | ug/kg | 2080  | 2080  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7440-47-3 |      |
| Copper  | 2060    | ug/kg | 1040  | 1040  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7440-50-8 |      |
| Iron  | 2510000 | ug/kg | 26000 | 7890  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7439-89-6 |      |
| Lead  | <10400  | ug/kg | 10400 | 10400 | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7439-92-1 |      |
| Magnesium   | 785000  | ug/kg | 26000 | 4150  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7439-95-4 |      |
| Manganese   | 29500   | ug/kg | 1040  | 1040  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7439-96-5 |      |
| Molybdenum  | <1040   | ug/kg | 1040  | 1040  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7439-98-7 |      |
| Nickel  | 3670    | ug/kg | 1040  | 1040  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7440-02-0 |      |
| Potassium   | 184000  | ug/kg | 51900 | 5080  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7440-09-7 |      |
| Sodium  | 28900   | ug/kg | 26000 | 14100 | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7440-23-5 |      |
| Strontium   | <5190   | ug/kg | 5190  | 5190  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7440-24-6 |      |
| Vanadium  | 5740    | ug/kg | 1040  | 1040  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7440-62-2 |      |
| Zinc  | 7580    | ug/kg | 1040  | 1040  | 1  | 06/26/20 14:44 | 06/29/20 12:18 | 7440-66-6 |      |
| <b>6020 MET ICPMS</b>                                     |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |       |    |                |                |           |      |
| Aluminum  | 2480000 | ug/kg | 56100 | 56100 | 50 | 06/24/20 09:22 | 06/30/20 01:13 | 7429-90-5 |      |
| Cadmium   | <224    | ug/kg | 224   | 224   | 1  | 06/24/20 09:22 | 06/25/20 15:12 | 7440-43-9 |      |
| Cobalt  | 1190    | ug/kg | 561   | 561   | 1  | 06/24/20 09:22 | 06/25/20 15:12 | 7440-48-4 |      |
| Selenium  | <224    | ug/kg | 224   | 224   | 1  | 06/24/20 09:22 | 06/25/20 15:12 | 7782-49-2 |      |
| Silver  | <112    | ug/kg | 112   | 112   | 1  | 06/24/20 09:22 | 06/25/20 15:12 | 7440-22-4 |      |
| Thallium  | <561    | ug/kg | 561   | 561   | 1  | 06/24/20 09:22 | 06/25/20 15:12 | 7440-28-0 |      |
| Titanium  | 204000  | ug/kg | 5610  | 1490  | 50 | 06/24/20 09:22 | 06/30/20 01:13 | 7440-32-6 | N2   |
| <b>7471 Mercury</b>                                       |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471  |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |       |    |                |                |           |      |
| Mercury   | <85.9   | ug/kg | 109   | 85.9  | 1  | 06/26/20 02:49 | 06/26/20 07:30 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                  |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546  |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |       |    |                |                |           |      |
| Acenaphthene  | <366    | ug/kg | 366   | 366   | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 83-32-9   |      |
| Acenaphthylene  | <366    | ug/kg | 366   | 366   | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 208-96-8  |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

**Sample: MW-127 (6-7)**      **Lab ID: 50260268007**      Collected: 06/15/20 11:30      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                    |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |      |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |      |      |    |                |                |           |      |
| Anthracene  | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 120-12-7  |      |
| Benzo(a)anthracene  | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 56-55-3   |      |
| Benzo(a)pyrene  | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 207-08-9  |      |
| 4-Bromophenylphenyl ether                                   | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 101-55-3  |      |
| Butylbenzylphthalate  | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 85-68-7   |      |
| Carbazole   | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                     | <310    | ug/kg | 366  | 310  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                                  | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                    | <177    | ug/kg | 366  | 177  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                                | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 108-60-1  |      |
| 2-Chloronaphthalene   | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 91-58-7   |      |
| 2-Chlorophenol  | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                                  | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 7005-72-3 |      |
| Chrysene  | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                       | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 53-70-3   |      |
| Dibenzofuran  | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 132-64-9  |      |
| 2,4-Dichlorophenol  | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 120-83-2  |      |
| Diethylphthalate  | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 84-66-2   |      |
| 2,4-Dimethylphenol  | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 105-67-9  |      |
| Dimethylphthalate   | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 131-11-3  |      |
| Di-n-butylphthalate   | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                                  | <920    | ug/kg | 920  | 920  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 534-52-1  |      |
| 2,4-Dinitrophenol   | <1770   | ug/kg | 1770 | 1770 | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 51-28-5   |      |
| 2,4-Dinitrotoluene  | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 121-14-2  |      |
| 2,6-Dinitrotoluene  | <98.1   | ug/kg | 366  | 98.1 | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 606-20-2  |      |
| Di-n-octylphthalate   | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                       | <1770   | ug/kg | 1770 | 1770 | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate                                  | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 117-81-7  |      |
| Fluoranthene  | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 206-44-0  |      |
| Fluorene  | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                    | <106    | ug/kg | 366  | 106  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 87-68-3   |      |
| Hexachlorobenzene   | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                   | <1110   | ug/kg | 1110 | 1110 | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 77-47-4   |      |
| Hexachloroethane  | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                      | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 193-39-5  |      |
| Isophorone  | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 78-59-1   |      |
| 2-Methylnaphthalene   | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                    | <1110   | ug/kg | 1110 | 1110 | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                                | <1110   | ug/kg | 1110 | 1110 | 1  | 06/23/20 12:30 | 06/24/20 13:32 |           |      |
| Naphthalene   | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 91-20-3   |      |
| 2-Nitroaniline  | <366    | ug/kg | 366  | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 88-74-4   |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

**Sample: MW-127 (6-7)**      **Lab ID: 50260268007**      Collected: 06/15/20 11:30      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                    |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| 3-Nitroaniline  | <366    | ug/kg | 366    | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 99-09-2   |      |
| 4-Nitroaniline  | <366    | ug/kg | 366    | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 100-01-6  |      |
| Nitrobenzene  | <366    | ug/kg | 366    | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 98-95-3   |      |
| 2-Nitrophenol   | <366    | ug/kg | 366    | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 88-75-5   |      |
| 4-Nitrophenol   | <1770   | ug/kg | 1770   | 1770 | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 100-02-7  |      |
| N-Nitrosodimethylamine                                      | <366    | ug/kg | 366    | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                                  | <366    | ug/kg | 366    | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                      | <366    | ug/kg | 366    | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 86-30-6   |      |
| Pentachlorophenol   | <1630   | ug/kg | 1770   | 1630 | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 87-86-5   |      |
| Phenanthrene  | <366    | ug/kg | 366    | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 85-01-8   |      |
| Phenol  | <366    | ug/kg | 366    | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 108-95-2  |      |
| Pyrene  | <366    | ug/kg | 366    | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                      | <366    | ug/kg | 366    | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                       | <366    | ug/kg | 366    | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                       | <366    | ug/kg | 366    | 366  | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 88-06-2   |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)   | 63      | %     | 26-96  |      | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 4165-60-0 |      |
| Phenol-d5 (S)   | 82      | %     | 32-93  |      | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 4165-62-2 |      |
| 2-Fluorophenol (S)  | 87      | %     | 24-95  |      | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                    | 78      | %     | 20-109 |      | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 118-79-6  |      |
| 2-Fluorobiphenyl (S)  | 79      | %     | 36-91  |      | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 91      | %     | 27-117 |      | 1  | 06/23/20 12:30 | 06/24/20 13:32 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                              |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                                 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| Acetone   | <1220   | ug/kg | 1220   | 1220 | 1  |                | 06/24/20 06:56 | 67-64-1   |      |
| Acrylonitrile   | <122    | ug/kg | 122    | 122  | 1  |                | 06/24/20 06:56 | 107-13-1  |      |
| tert-Amylmethyl ether                                       | <306    | ug/kg | 306    | 306  | 1  |                | 06/24/20 06:56 | 994-05-8  | N2   |
| Benzene   | <61.2   | ug/kg | 61.2   | 61.2 | 1  |                | 06/24/20 06:56 | 71-43-2   |      |
| Bromobenzene  | <122    | ug/kg | 122    | 122  | 1  |                | 06/24/20 06:56 | 108-86-1  |      |
| Bromochloromethane  | <30.6   | ug/kg | 61.2   | 30.6 | 1  |                | 06/24/20 06:56 | 74-97-5   |      |
| Bromodichloromethane  | <122    | ug/kg | 122    | 122  | 1  |                | 06/24/20 06:56 | 75-27-4   |      |
| Bromoform   | <122    | ug/kg | 122    | 122  | 1  |                | 06/24/20 06:56 | 75-25-2   |      |
| Bromomethane  | <245    | ug/kg | 245    | 245  | 1  |                | 06/24/20 06:56 | 74-83-9   |      |
| 2-Butanone (MEK)  | <918    | ug/kg | 918    | 918  | 1  |                | 06/24/20 06:56 | 78-93-3   |      |
| tert-Butyl Alcohol  | <3060   | ug/kg | 3060   | 3060 | 1  |                | 06/24/20 06:56 | 75-65-0   |      |
| n-Butylbenzene  | <61.2   | ug/kg | 61.2   | 61.2 | 1  |                | 06/24/20 06:56 | 104-51-8  |      |
| sec-Butylbenzene  | <61.2   | ug/kg | 61.2   | 61.2 | 1  |                | 06/24/20 06:56 | 135-98-8  |      |
| tert-Butylbenzene   | <61.2   | ug/kg | 61.2   | 61.2 | 1  |                | 06/24/20 06:56 | 98-06-6   |      |
| Carbon disulfide  | <306    | ug/kg | 306    | 306  | 1  |                | 06/24/20 06:56 | 75-15-0   |      |
| Carbon tetrachloride  | <61.2   | ug/kg | 61.2   | 61.2 | 1  |                | 06/24/20 06:56 | 56-23-5   |      |
| Chlorobenzene   | <61.2   | ug/kg | 61.2   | 61.2 | 1  |                | 06/24/20 06:56 | 108-90-7  |      |
| Chloroethane  | <306    | ug/kg | 306    | 306  | 1  |                | 06/24/20 06:56 | 75-00-3   |      |
| Chloroform  | <61.2   | ug/kg | 61.2   | 61.2 | 1  |                | 06/24/20 06:56 | 67-66-3   |      |

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-127 (6-7)**      **Lab ID: 50260268007**      Collected: 06/15/20 11:30      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Chloromethane                  | <306    | ug/kg  | 306  | 306  | 1  |          | 06/24/20 06:56 | 74-87-3    |      |
| Cyclohexane                    | <612    | ug/kg  | 612  | 612  | 1  |          | 06/24/20 06:56 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <61.2   | ug/kg  | 61.2 | 61.2 | 1  |          | 06/24/20 06:56 | 96-12-8    |      |
| Dibromochloromethane           | <122    | ug/kg  | 122  | 122  | 1  |          | 06/24/20 06:56 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <61.2   | ug/kg  | 61.2 | 61.2 | 1  |          | 06/24/20 06:56 | 106-93-4   |      |
| Dibromomethane                 | <306    | ug/kg  | 306  | 306  | 1  |          | 06/24/20 06:56 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <122    | ug/kg  | 122  | 122  | 1  |          | 06/24/20 06:56 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <122    | ug/kg  | 122  | 122  | 1  |          | 06/24/20 06:56 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <122    | ug/kg  | 122  | 122  | 1  |          | 06/24/20 06:56 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <122    | ug/kg  | 1220 | 122  | 1  |          | 06/24/20 06:56 | 110-57-6   |      |
| Dichlorodifluoromethane        | <306    | ug/kg  | 306  | 306  | 1  |          | 06/24/20 06:56 | 75-71-8    |      |
| 1,1-Dichloroethane             | <61.2   | ug/kg  | 61.2 | 61.2 | 1  |          | 06/24/20 06:56 | 75-34-3    |      |
| 1,2-Dichloroethane             | <61.2   | ug/kg  | 61.2 | 61.2 | 1  |          | 06/24/20 06:56 | 107-06-2   |      |
| 1,1-Dichloroethene             | <61.2   | ug/kg  | 61.2 | 61.2 | 1  |          | 06/24/20 06:56 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <61.2   | ug/kg  | 61.2 | 61.2 | 1  |          | 06/24/20 06:56 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <61.2   | ug/kg  | 61.2 | 61.2 | 1  |          | 06/24/20 06:56 | 156-60-5   |      |
| 1,2-Dichloropropane            | <61.2   | ug/kg  | 61.2 | 61.2 | 1  |          | 06/24/20 06:56 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <122    | ug/kg  | 122  | 122  | 1  |          | 06/24/20 06:56 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <122    | ug/kg  | 122  | 122  | 1  |          | 06/24/20 06:56 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <245    | ug/kg  | 245  | 245  | 1  |          | 06/24/20 06:56 | 60-29-7    |      |
| Diisopropyl ether              | <306    | ug/kg  | 306  | 306  | 1  |          | 06/24/20 06:56 | 108-20-3   | N2   |
| Ethylbenzene                   | <61.2   | ug/kg  | 61.2 | 61.2 | 1  |          | 06/24/20 06:56 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <306    | ug/kg  | 306  | 306  | 1  |          | 06/24/20 06:56 | 637-92-3   | N2   |
| Hexachloroethane               | <367    | ug/kg  | 367  | 367  | 1  |          | 06/24/20 06:56 | 67-72-1    | N2   |
| 2-Hexanone                     | <3060   | ug/kg  | 3060 | 3060 | 1  |          | 06/24/20 06:56 | 591-78-6   |      |
| Iodomethane                    | <122    | ug/kg  | 1220 | 122  | 1  |          | 06/24/20 06:56 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <306    | ug/kg  | 306  | 306  | 1  |          | 06/24/20 06:56 | 98-82-8    |      |
| p-Isopropyltoluene             | <30.6   | ug/kg  | 61.2 | 30.6 | 1  |          | 06/24/20 06:56 | 99-87-6    |      |
| Methylene Chloride             | <122    | ug/kg  | 122  | 122  | 1  |          | 06/24/20 06:56 | 75-09-2    |      |
| 2-Methylnaphthalene            | <404    | ug/kg  | 404  | 404  | 1  |          | 06/24/20 06:56 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)    | <3060   | ug/kg  | 3060 | 3060 | 1  |          | 06/24/20 06:56 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <306    | ug/kg  | 306  | 306  | 1  |          | 06/24/20 06:56 | 1634-04-4  |      |
| Naphthalene                    | <404    | ug/kg  | 404  | 404  | 1  |          | 06/24/20 06:56 | 91-20-3    |      |
| n-Propylbenzene                | <122    | ug/kg  | 122  | 122  | 1  |          | 06/24/20 06:56 | 103-65-1   |      |
| Styrene                        | <61.2   | ug/kg  | 61.2 | 61.2 | 1  |          | 06/24/20 06:56 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <122    | ug/kg  | 122  | 122  | 1  |          | 06/24/20 06:56 | 630-20-6   |      |
| 1,1,1,2,2-Tetrachloroethane    | <61.2   | ug/kg  | 61.2 | 61.2 | 1  |          | 06/24/20 06:56 | 79-34-5    |      |
| Tetrachloroethene              | <61.2   | ug/kg  | 61.2 | 61.2 | 1  |          | 06/24/20 06:56 | 127-18-4   |      |
| Tetrahydrofuran                | <1220   | ug/kg  | 1220 | 1220 | 1  |          | 06/24/20 06:56 | 109-99-9   | N2   |
| Toluene                        | <122    | ug/kg  | 122  | 122  | 1  |          | 06/24/20 06:56 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene         | <306    | ug/kg  | 306  | 306  | 1  |          | 06/24/20 06:56 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene         | <306    | ug/kg  | 306  | 306  | 1  |          | 06/24/20 06:56 | 120-82-1   |      |
| 1,1,1-Trichloroethane          | <61.2   | ug/kg  | 61.2 | 61.2 | 1  |          | 06/24/20 06:56 | 71-55-6    |      |
| 1,1,2-Trichloroethane          | <61.2   | ug/kg  | 61.2 | 61.2 | 1  |          | 06/24/20 06:56 | 79-00-5    |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-127 (6-7)**      **Lab ID: 50260268007**      Collected: 06/15/20 11:30      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|---------|--|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Trichloroethene                | <61.2   | ug/kg  | 61.2   | 61.2 | 1  |          | 06/24/20 06:56 | 79-01-6     |      |
| Trichlorofluoromethane         | <122    | ug/kg  | 122    | 122  | 1  |          | 06/24/20 06:56 | 75-69-4     |      |
| 1,2,3-Trichloropropane         | <122    | ug/kg  | 122    | 122  | 1  |          | 06/24/20 06:56 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene         | <306    | ug/kg  | 306    | 306  | 1  |          | 06/24/20 06:56 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene         | <122    | ug/kg  | 122    | 122  | 1  |          | 06/24/20 06:56 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | <122    | ug/kg  | 122    | 122  | 1  |          | 06/24/20 06:56 | 108-67-8    |      |
| Vinyl chloride                 | <49.0   | ug/kg  | 49.0   | 49.0 | 1  |          | 06/24/20 06:56 | 75-01-4     |      |
| m&p-Xylene                     | <30.6   | ug/kg  | 61.2   | 30.6 | 1  |          | 06/24/20 06:56 | 179601-23-1 |      |
| o-Xylene                       | <30.6   | ug/kg  | 61.2   | 30.6 | 1  |          | 06/24/20 06:56 | 95-47-6     |      |
| <b>Surrogates</b>              |         |  |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)       | 115     | %  | 62-137 |      | 1  |          | 06/24/20 06:56 | 1868-53-7   |      |
| Toluene-d8 (S)                 | 114     | %  | 64-139 |      | 1  |          | 06/24/20 06:56 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)       | 117     | %  | 60-142 |      | 1  |          | 06/24/20 06:56 | 460-00-4    |      |
| <b>Percent Moisture</b>        |         | Analytical Method: SM 2540G<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Percent Moisture               | 11.8    | %  | 0.10   | 0.10 | 1  |          | 06/23/20 14:20 |             |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-127 (10-11')**      **Lab ID: 50260268008**      Collected: 06/15/20 13:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results  | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--|----------|-------|--------|-------|----|----------------|----------------|------------|------|
| <b>8015M Alcohols in solids</b>                                |          |       |        |       |    |                |                |            |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                     |          |       |        |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |       |    |                |                |            |      |
| n-Butanol  | <4770    | ug/kg | 4770   | 4770  | 1  |                | 06/22/20 17:02 | 71-36-3    |      |
| Ethanol  | <2710    | ug/kg | 2710   | 2710  | 1  |                | 06/22/20 17:02 | 64-17-5    |      |
| Methanol   | <4770    | ug/kg | 4770   | 4770  | 1  |                | 06/22/20 17:02 | 67-56-1    |      |
| <b>8082 GCS PCB Solids</b>                                     |          |       |        |       |    |                |                |            |      |
| Analytical Method: EPA 8082      Preparation Method: EPA 3546  |          |       |        |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |       |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)  | <358     | ug/kg | 358    | 358   | 1  | 06/24/20 21:50 | 06/25/20 21:37 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)  | <358     | ug/kg | 358    | 358   | 1  | 06/24/20 21:50 | 06/25/20 21:37 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)  | <358     | ug/kg | 358    | 358   | 1  | 06/24/20 21:50 | 06/25/20 21:37 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)  | <358     | ug/kg | 358    | 358   | 1  | 06/24/20 21:50 | 06/25/20 21:37 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)  | <358     | ug/kg | 358    | 358   | 1  | 06/24/20 21:50 | 06/25/20 21:37 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)  | <358     | ug/kg | 358    | 358   | 1  | 06/24/20 21:50 | 06/25/20 21:37 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)  | <358     | ug/kg | 358    | 358   | 1  | 06/24/20 21:50 | 06/25/20 21:37 | 11096-82-5 |      |
| PCB-1262 (Aroclor 1262)  | <358     | ug/kg | 358    | 358   | 1  | 06/24/20 21:50 | 06/25/20 21:37 | 37324-23-5 | N2   |
| PCB-1268 (Aroclor 1268)  | <358     | ug/kg | 358    | 358   | 1  | 06/24/20 21:50 | 06/25/20 21:37 | 11100-14-4 | N2   |
| <b>Surrogates</b>  |          |       |        |       |    |                |                |            |      |
| Tetrachloro-m-xylene (S)                                       | 53       | %     | 25-123 |       | 1  | 06/24/20 21:50 | 06/25/20 21:37 | 877-09-8   |      |
| <b>6010 MET ICP</b>  |          |       |        |       |    |                |                |            |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050  |          |       |        |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |       |    |                |                |            |      |
| Antimony   | <1060    | ug/kg | 1060   | 1060  | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7440-36-0  |      |
| Arsenic  | <2120    | ug/kg | 2120   | 2120  | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7440-38-2  |      |
| Barium   | 4410     | ug/kg | 1060   | 1060  | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7440-39-3  |      |
| Beryllium  | <529     | ug/kg | 529    | 529   | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7440-41-7  |      |
| Boron  | <8470    | ug/kg | 8470   | 8470  | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7440-42-8  |      |
| Calcium  | 28100000 | ug/kg | 265000 | 35100 | 5  | 06/26/20 14:44 | 06/29/20 12:47 | 7440-70-2  |      |
| Chromium   | 3580     | ug/kg | 2120   | 2120  | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7440-47-3  |      |
| Copper   | 2810     | ug/kg | 1060   | 1060  | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7440-50-8  |      |
| Iron   | 2440000  | ug/kg | 26500  | 8040  | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7439-89-6  |      |
| Lead   | <10600   | ug/kg | 10600  | 10600 | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7439-92-1  |      |
| Magnesium  | 4010000  | ug/kg | 26500  | 4230  | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7439-95-4  |      |
| Manganese  | 61300    | ug/kg | 1060   | 1060  | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7439-96-5  |      |
| Molybdenum   | <1060    | ug/kg | 1060   | 1060  | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7439-98-7  |      |
| Nickel   | 4460     | ug/kg | 1060   | 1060  | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7440-02-0  |      |
| Potassium  | 195000   | ug/kg | 52900  | 5170  | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7440-09-7  |      |
| Sodium   | 56800    | ug/kg | 26500  | 14400 | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7440-23-5  |      |
| Strontium  | 24900    | ug/kg | 5290   | 5290  | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7440-24-6  |      |
| Vanadium   | 10200    | ug/kg | 1060   | 1060  | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7440-62-2  |      |
| Zinc   | 6750     | ug/kg | 1060   | 1060  | 1  | 06/26/20 14:44 | 06/29/20 12:21 | 7440-66-6  |      |
| <b>6020 MET ICPMS</b>  |          |       |        |       |    |                |                |            |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B |          |       |        |       |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |       |    |                |                |            |      |
| Aluminum   | 1630000  | ug/kg | 53000  | 53000 | 50 | 06/24/20 09:22 | 06/30/20 01:18 | 7429-90-5  |      |
| Cadmium  | <212     | ug/kg | 212    | 212   | 1  | 06/24/20 09:22 | 06/25/20 15:26 | 7440-43-9  |      |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

Sample: MW-127 (10-11') Lab ID: 50260268008 Collected: 06/15/20 13:00 Received: 06/18/20 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters  | Results | Units | PQL   | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|-------|-------|----|----------------|----------------|-----------|------|
| <b>6020 MET ICPMS</b>                                     |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |       |    |                |                |           |      |
| Cobalt  | 1150    | ug/kg | 530   | 530   | 1  | 06/24/20 09:22 | 06/25/20 15:26 | 7440-48-4 |      |
| Selenium  | <212    | ug/kg | 212   | 212   | 1  | 06/24/20 09:22 | 06/25/20 15:26 | 7782-49-2 |      |
| Silver  | <106    | ug/kg | 106   | 106   | 1  | 06/24/20 09:22 | 06/25/20 15:26 | 7440-22-4 |      |
| Thallium  | <530    | ug/kg | 530   | 530   | 1  | 06/24/20 09:22 | 06/25/20 15:26 | 7440-28-0 |      |
| Titanium  | 175000  | ug/kg | 5300  | 1410  | 50 | 06/24/20 09:22 | 06/30/20 01:18 | 7440-32-6 | N2   |
| <b>7471 Mercury</b>                                       |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471  |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |       |    |                |                |           |      |
| Mercury   | <84.5   | ug/kg | 107   | 84.5  | 1  | 06/26/20 02:49 | 06/26/20 07:33 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                  |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546  |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |       |    |                |                |           |      |
| Acenaphthene  | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 83-32-9   |      |
| Acenaphthylene  | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 208-96-8  |      |
| Anthracene  | 9250    | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 120-12-7  |      |
| Benzo(a)anthracene  | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 56-55-3   |      |
| Benzo(a)pyrene  | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 50-32-8   |      |
| Benzo(b)fluoranthene                                      | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 205-99-2  |      |
| Benzo(g,h,i)perylene                                      | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 191-24-2  |      |
| Benzo(k)fluoranthene                                      | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 207-08-9  |      |
| 4-Bromophenylphenyl ether                                 | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 101-55-3  |      |
| Butylbenzylphthalate                                      | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 85-68-7   |      |
| Carbazole   | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                   | <7540   | ug/kg | 8880  | 7540  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                                | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                  | <4310   | ug/kg | 8880  | 4310  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                              | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 108-60-1  |      |
| 2-Chloronaphthalene                                       | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 91-58-7   |      |
| 2-Chlorophenol  | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                                | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 7005-72-3 |      |
| Chrysene  | 11600   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                     | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 53-70-3   |      |
| Dibenzofuran  | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 132-64-9  |      |
| 2,4-Dichlorophenol  | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 120-83-2  |      |
| Diethylphthalate  | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 84-66-2   |      |
| 2,4-Dimethylphenol  | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 105-67-9  |      |
| Dimethylphthalate   | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 131-11-3  |      |
| Di-n-butylphthalate                                       | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                                | <22300  | ug/kg | 22300 | 22300 | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 534-52-1  |      |
| 2,4-Dinitrophenol   | <43100  | ug/kg | 43100 | 43100 | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 51-28-5   |      |
| 2,4-Dinitrotoluene  | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 121-14-2  |      |
| 2,6-Dinitrotoluene  | <2380   | ug/kg | 8880  | 2380  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 606-20-2  |      |
| Di-n-octylphthalate                                       | <8880   | ug/kg | 8880  | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                     | <43100  | ug/kg | 43100 | 43100 | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 122-66-7  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

Sample: MW-127 (10-11') Lab ID: 50260268008 Collected: 06/15/20 13:00 Received: 06/18/20 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters   | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                 |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |        |       |    |                |                |           |      |
| bis(2-Ethylhexyl)phthalate                               | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 117-81-7  |      |
| Fluoranthene   | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 206-44-0  |      |
| Fluorene   | 16500   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                 | <2580   | ug/kg | 8880   | 2580  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 87-68-3   |      |
| Hexachlorobenzene  | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                | <26900  | ug/kg | 26900  | 26900 | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 77-47-4   |      |
| Hexachloroethane   | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                   | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 193-39-5  |      |
| Isophorone   | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 78-59-1   |      |
| 2-Methylnaphthalene                                      | 61800   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                 | <26900  | ug/kg | 26900  | 26900 | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                             | <26900  | ug/kg | 26900  | 26900 | 5  | 06/23/20 12:30 | 06/24/20 13:49 |           |      |
| Naphthalene  | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 91-20-3   |      |
| 2-Nitroaniline   | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 88-74-4   |      |
| 3-Nitroaniline   | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 99-09-2   |      |
| 4-Nitroaniline   | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 100-01-6  |      |
| Nitrobenzene   | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 98-95-3   |      |
| 2-Nitrophenol  | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 88-75-5   |      |
| 4-Nitrophenol  | <43100  | ug/kg | 43100  | 43100 | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 100-02-7  |      |
| N-Nitrosodimethylamine                                   | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                               | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                   | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 86-30-6   |      |
| Pentachlorophenol  | <39600  | ug/kg | 43100  | 39600 | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 87-86-5   |      |
| Phenanthrene   | 68700   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 85-01-8   |      |
| Phenol   | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 108-95-2  | ED   |
| Pyrene   | 23800   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                   | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                    | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                    | <8880   | ug/kg | 8880   | 8880  | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| Nitrobenzene-d5 (S)                                      | 0       | %     | 26-96  |       | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 4165-60-0 | S4   |
| Phenol-d5 (S)  | 0       | %     | 32-93  |       | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 4165-62-2 | S4   |
| 2-Fluorophenol (S)                                       | 0       | %     | 24-95  |       | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 367-12-4  | S4   |
| 2,4,6-Tribromophenol (S)                                 | 54      | %     | 20-109 |       | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 118-79-6  |      |
| 2-Fluorobiphenyl (S)                                     | 86      | %     | 36-91  |       | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 321-60-8  |      |
| p-Terphenyl-d14 (S)                                      | 74      | %     | 27-117 |       | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 1718-51-0 |      |
| <b>Tentatively Identified Compounds</b>                  |         |       |        |       |    |                |                |           |      |
| Naphthalene, 1-ethyl-                                    | 51900J  | ug/kg |        |       | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 1127-76-0 | N    |
| Naphthalene, 2,6-dimethy                                 | 147000J | ug/kg |        |       | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 581-42-0  | N    |
| Naphthalene, 1,3-dimethy                                 | 172000J | ug/kg |        |       | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 575-41-7  | N    |
| Naphthalene, 1,7-dimethy                                 | 96100J  | ug/kg |        |       | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 575-37-1  | N    |
| Naphthalene, 2,3-dimethy                                 | 74500J  | ug/kg |        |       | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 581-40-8  | N    |
| Naphthalene, 2,3-dimethy                                 | 31100J  | ug/kg |        |       | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 581-40-8  | N    |
| Naphthalene, 2-(1-methyl                                 | 95800J  | ug/kg |        |       | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 2027-17-0 | N    |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-127 (10-11')**      **Lab ID: 50260268008**      Collected: 06/15/20 13:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results       | Units | PQL | MDL | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---|---------------|-------|-----|-----|----|----------------|----------------|------------|------|
| <b>8270 SVOC SS Soil</b>                                    |               |       |     |     |    |                |                |            |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |               |       |     |     |    |                |                |            |      |
| Pace Analytical Services - Indianapolis                     |               |       |     |     |    |                |                |            |      |
| <b>Tentatively Identified Compounds</b>                     |               |       |     |     |    |                |                |            |      |
| Naphthalene, 2,3,6-trime                                    | <b>64600J</b> | ug/kg |     |     | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 829-26-5   | N    |
| Naphthalene, 2,3,6-trime                                    | <b>52700J</b> | ug/kg |     |     | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 829-26-5   | N    |
| Naphthalene, 1,4,6-trime                                    | <b>43900J</b> | ug/kg |     |     | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 2131-42-2  | N    |
| Naphthalene, 1,6,7-trime                                    | <b>68400J</b> | ug/kg |     |     | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 2245-38-7  | N    |
| Benzene, [1-(2,4-cyclo                                      | <b>97700J</b> | ug/kg |     |     | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 2320-32-3  | N    |
| Naphthalene, 2-methyl-1-                                    | <b>35600J</b> | ug/kg |     |     | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 54774-89-9 | N    |
| Dibenzofuran, 4-methyl-                                     | <b>34000J</b> | ug/kg |     |     | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 7320-53-8  | N    |
| Unknown   | <b>48400J</b> | ug/kg |     |     | 5  | 06/23/20 12:30 | 06/24/20 13:49 |            |      |
| 4,4'-Dimethylbiphenyl                                       | <b>55800J</b> | ug/kg |     |     | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 613-33-2   | N    |
| Unknown   | <b>36500J</b> | ug/kg |     |     | 5  | 06/23/20 12:30 | 06/24/20 13:49 |            |      |
| 9H-Fluorene, 2,3-dimethy                                    | <b>32800J</b> | ug/kg |     |     | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 4612-63-9  | N    |
| Anthracene, 1-methyl-                                       | <b>64700J</b> | ug/kg |     |     | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 610-48-0   | N    |
| 1H-Indene, 1-phenyl-  | <b>80400J</b> | ug/kg |     |     | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 1961-96-2  | N    |
| Phenanthrene, 4-methyl-                                     | <b>52100J</b> | ug/kg |     |     | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 832-64-4   | N    |
| 2,8-Dimethyldibenzo(B,D)                                    | <b>32900J</b> | ug/kg |     |     | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 1207-15-4  | N    |
| Phenanthrene, 4,5-dimeth                                    | <b>38200J</b> | ug/kg |     |     | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 3674-69-9  | N    |
| Phenanthrene, 3,6-dimeth                                    | <b>48800J</b> | ug/kg |     |     | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 1576-67-6  | N    |
| Phenanthrene, 2,5-dimeth                                    | <b>86700J</b> | ug/kg |     |     | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 3674-66-6  | N    |
| Unknown   | <b>45700J</b> | ug/kg |     |     | 5  | 06/23/20 12:30 | 06/24/20 13:49 |            |      |
| Phenanthrene, 2,3,5-trim                                    | <b>16700J</b> | ug/kg |     |     | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 3674-73-5  | N    |
| Pyrene, 1-methyl-   | <b>17100J</b> | ug/kg |     |     | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 2381-21-7  | N    |
| Pyrene, 1,3-dimethyl-                                       | <b>15500J</b> | ug/kg |     |     | 5  | 06/23/20 12:30 | 06/24/20 13:49 | 64401-21-4 | N    |
| Unknown   | <b>15200J</b> | ug/kg |     |     | 5  | 06/23/20 12:30 | 06/24/20 13:49 |            |      |

**8260MSV 5035S Med Level**

Analytical Method: EPA 8260  
Pace Analytical Services - Indianapolis

|                       |                 |       |      |      |   |  |                |          |    |
|-----------------------|-----------------|-------|------|------|---|--|----------------|----------|----|
| Acetone               | <b>&lt;1070</b> | ug/kg | 1070 | 1070 | 1 |  | 06/24/20 07:30 | 67-64-1  |    |
| Acrylonitrile         | <b>&lt;107</b>  | ug/kg | 107  | 107  | 1 |  | 06/24/20 07:30 | 107-13-1 |    |
| tert-Amylmethyl ether | <b>&lt;267</b>  | ug/kg | 267  | 267  | 1 |  | 06/24/20 07:30 | 994-05-8 | N2 |
| Benzene               | <b>&lt;53.5</b> | ug/kg | 53.5 | 53.5 | 1 |  | 06/24/20 07:30 | 71-43-2  |    |
| Bromobenzene          | <b>&lt;107</b>  | ug/kg | 107  | 107  | 1 |  | 06/24/20 07:30 | 108-86-1 |    |
| Bromochloromethane    | <b>&lt;26.7</b> | ug/kg | 53.5 | 26.7 | 1 |  | 06/24/20 07:30 | 74-97-5  |    |
| Bromodichloromethane  | <b>&lt;107</b>  | ug/kg | 107  | 107  | 1 |  | 06/24/20 07:30 | 75-27-4  |    |
| Bromoform             | <b>&lt;107</b>  | ug/kg | 107  | 107  | 1 |  | 06/24/20 07:30 | 75-25-2  |    |
| Bromomethane          | <b>&lt;214</b>  | ug/kg | 214  | 214  | 1 |  | 06/24/20 07:30 | 74-83-9  |    |
| 2-Butanone (MEK)      | <b>&lt;802</b>  | ug/kg | 802  | 802  | 1 |  | 06/24/20 07:30 | 78-93-3  |    |
| tert-Butyl Alcohol    | <b>&lt;2670</b> | ug/kg | 2670 | 2670 | 1 |  | 06/24/20 07:30 | 75-65-0  |    |
| n-Butylbenzene        | <b>&lt;53.5</b> | ug/kg | 53.5 | 53.5 | 1 |  | 06/24/20 07:30 | 104-51-8 |    |
| sec-Butylbenzene      | <b>&lt;53.5</b> | ug/kg | 53.5 | 53.5 | 1 |  | 06/24/20 07:30 | 135-98-8 |    |
| tert-Butylbenzene     | <b>&lt;53.5</b> | ug/kg | 53.5 | 53.5 | 1 |  | 06/24/20 07:30 | 98-06-6  |    |
| Carbon disulfide      | <b>&lt;267</b>  | ug/kg | 267  | 267  | 1 |  | 06/24/20 07:30 | 75-15-0  |    |
| Carbon tetrachloride  | <b>&lt;53.5</b> | ug/kg | 53.5 | 53.5 | 1 |  | 06/24/20 07:30 | 56-23-5  |    |
| Chlorobenzene         | <b>&lt;53.5</b> | ug/kg | 53.5 | 53.5 | 1 |  | 06/24/20 07:30 | 108-90-7 |    |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

Sample: MW-127 (10-11') Lab ID: 50260268008 Collected: 06/15/20 13:00 Received: 06/18/20 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Chloroethane                   | <267    | ug/kg  | 267  | 267  | 1  |          | 06/24/20 07:30 | 75-00-3    |      |
| Chloroform                     | <53.5   | ug/kg  | 53.5 | 53.5 | 1  |          | 06/24/20 07:30 | 67-66-3    |      |
| Chloromethane                  | <267    | ug/kg  | 267  | 267  | 1  |          | 06/24/20 07:30 | 74-87-3    |      |
| Cyclohexane                    | <535    | ug/kg  | 535  | 535  | 1  |          | 06/24/20 07:30 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <53.5   | ug/kg  | 53.5 | 53.5 | 1  |          | 06/24/20 07:30 | 96-12-8    |      |
| Dibromochloromethane           | <107    | ug/kg  | 107  | 107  | 1  |          | 06/24/20 07:30 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <53.5   | ug/kg  | 53.5 | 53.5 | 1  |          | 06/24/20 07:30 | 106-93-4   |      |
| Dibromomethane                 | <267    | ug/kg  | 267  | 267  | 1  |          | 06/24/20 07:30 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <107    | ug/kg  | 107  | 107  | 1  |          | 06/24/20 07:30 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <107    | ug/kg  | 107  | 107  | 1  |          | 06/24/20 07:30 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <107    | ug/kg  | 107  | 107  | 1  |          | 06/24/20 07:30 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <107    | ug/kg  | 1070 | 107  | 1  |          | 06/24/20 07:30 | 110-57-6   |      |
| Dichlorodifluoromethane        | <267    | ug/kg  | 267  | 267  | 1  |          | 06/24/20 07:30 | 75-71-8    |      |
| 1,1-Dichloroethane             | <53.5   | ug/kg  | 53.5 | 53.5 | 1  |          | 06/24/20 07:30 | 75-34-3    |      |
| 1,2-Dichloroethane             | <53.5   | ug/kg  | 53.5 | 53.5 | 1  |          | 06/24/20 07:30 | 107-06-2   |      |
| 1,1-Dichloroethene             | <53.5   | ug/kg  | 53.5 | 53.5 | 1  |          | 06/24/20 07:30 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <53.5   | ug/kg  | 53.5 | 53.5 | 1  |          | 06/24/20 07:30 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <53.5   | ug/kg  | 53.5 | 53.5 | 1  |          | 06/24/20 07:30 | 156-60-5   |      |
| 1,2-Dichloropropane            | <53.5   | ug/kg  | 53.5 | 53.5 | 1  |          | 06/24/20 07:30 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <107    | ug/kg  | 107  | 107  | 1  |          | 06/24/20 07:30 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <107    | ug/kg  | 107  | 107  | 1  |          | 06/24/20 07:30 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <214    | ug/kg  | 214  | 214  | 1  |          | 06/24/20 07:30 | 60-29-7    |      |
| Diisopropyl ether              | <267    | ug/kg  | 267  | 267  | 1  |          | 06/24/20 07:30 | 108-20-3   | N2   |
| Ethylbenzene                   | <53.5   | ug/kg  | 53.5 | 53.5 | 1  |          | 06/24/20 07:30 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <267    | ug/kg  | 267  | 267  | 1  |          | 06/24/20 07:30 | 637-92-3   | N2   |
| Hexachloroethane               | <321    | ug/kg  | 321  | 321  | 1  |          | 06/24/20 07:30 | 67-72-1    | N2   |
| 2-Hexanone                     | <2670   | ug/kg  | 2670 | 2670 | 1  |          | 06/24/20 07:30 | 591-78-6   |      |
| Iodomethane                    | <107    | ug/kg  | 1070 | 107  | 1  |          | 06/24/20 07:30 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <267    | ug/kg  | 267  | 267  | 1  |          | 06/24/20 07:30 | 98-82-8    |      |
| p-Isopropyltoluene             | <26.7   | ug/kg  | 53.5 | 26.7 | 1  |          | 06/24/20 07:30 | 99-87-6    |      |
| Methylene Chloride             | <107    | ug/kg  | 107  | 107  | 1  |          | 06/24/20 07:30 | 75-09-2    |      |
| 2-Methylnaphthalene            | <353    | ug/kg  | 353  | 353  | 1  |          | 06/24/20 07:30 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)    | <2670   | ug/kg  | 2670 | 2670 | 1  |          | 06/24/20 07:30 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <267    | ug/kg  | 267  | 267  | 1  |          | 06/24/20 07:30 | 1634-04-4  |      |
| Naphthalene                    | <353    | ug/kg  | 353  | 353  | 1  |          | 06/24/20 07:30 | 91-20-3    |      |
| n-Propylbenzene                | <107    | ug/kg  | 107  | 107  | 1  |          | 06/24/20 07:30 | 103-65-1   |      |
| Styrene                        | <53.5   | ug/kg  | 53.5 | 53.5 | 1  |          | 06/24/20 07:30 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <107    | ug/kg  | 107  | 107  | 1  |          | 06/24/20 07:30 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane      | <53.5   | ug/kg  | 53.5 | 53.5 | 1  |          | 06/24/20 07:30 | 79-34-5    |      |
| Tetrachloroethene              | <53.5   | ug/kg  | 53.5 | 53.5 | 1  |          | 06/24/20 07:30 | 127-18-4   |      |
| Tetrahydrofuran                | <1070   | ug/kg  | 1070 | 1070 | 1  |          | 06/24/20 07:30 | 109-99-9   | N2   |
| Toluene                        | <107    | ug/kg  | 107  | 107  | 1  |          | 06/24/20 07:30 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene         | <267    | ug/kg  | 267  | 267  | 1  |          | 06/24/20 07:30 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene         | <267    | ug/kg  | 267  | 267  | 1  |          | 06/24/20 07:30 | 120-82-1   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-127 (10-11')**      **Lab ID: 50260268008**      Collected: 06/15/20 13:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| 1,1,1-Trichloroethane                   | <53.5   | ug/kg | 53.5   | 53.5 | 1  |          | 06/24/20 07:30 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <53.5   | ug/kg | 53.5   | 53.5 | 1  |          | 06/24/20 07:30 | 79-00-5     |      |
| Trichloroethene                         | <53.5   | ug/kg | 53.5   | 53.5 | 1  |          | 06/24/20 07:30 | 79-01-6     |      |
| Trichlorofluoromethane                  | <107    | ug/kg | 107    | 107  | 1  |          | 06/24/20 07:30 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <107    | ug/kg | 107    | 107  | 1  |          | 06/24/20 07:30 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <267    | ug/kg | 267    | 267  | 1  |          | 06/24/20 07:30 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <107    | ug/kg | 107    | 107  | 1  |          | 06/24/20 07:30 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <107    | ug/kg | 107    | 107  | 1  |          | 06/24/20 07:30 | 108-67-8    |      |
| Vinyl chloride                          | <42.8   | ug/kg | 42.8   | 42.8 | 1  |          | 06/24/20 07:30 | 75-01-4     |      |
| m&p-Xylene                              | <26.7   | ug/kg | 53.5   | 26.7 | 1  |          | 06/24/20 07:30 | 179601-23-1 |      |
| o-Xylene                                | <26.7   | ug/kg | 53.5   | 26.7 | 1  |          | 06/24/20 07:30 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 107     | %     | 62-137 |      | 1  |          | 06/24/20 07:30 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 101     | %     | 64-139 |      | 1  |          | 06/24/20 07:30 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 109     | %     | 60-142 |      | 1  |          | 06/24/20 07:30 | 460-00-4    |      |
| <b>Percent Moisture</b>                 |         |       |        |      |    |          |                |             |      |
| Analytical Method: SM 2540G             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Percent Moisture                        | 7.7     | %     | 0.10   | 0.10 | 1  |          | 06/23/20 14:20 |             |      |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-128 (4-5)**      **Lab ID: 50260268009**      Collected: 06/15/20 09:45      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results  | Units | PQL    | MDL    | DF  | Prepared       | Analyzed       | CAS No.    | Qual |
|---|----------|-------|--------|--------|-----|----------------|----------------|------------|------|
| <b>8015M Alcohols in solids</b>                           |          |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                |          |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                   |          |       |        |        |     |                |                |            |      |
| n-Butanol   | <5150    | ug/kg | 5150   | 5150   | 1   |                | 06/22/20 17:11 | 71-36-3    |      |
| Ethanol   | <2920    | ug/kg | 2920   | 2920   | 1   |                | 06/22/20 17:11 | 64-17-5    |      |
| Methanol  | <5150    | ug/kg | 5150   | 5150   | 1   |                | 06/22/20 17:11 | 67-56-1    |      |
| <b>8082 GCS PCB Solids</b>                                |          |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 8082 Preparation Method: EPA 3546  |          |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                   |          |       |        |        |     |                |                |            |      |
| PCB-1016 (Aroclor 1016)                                   | <383     | ug/kg | 383    | 383    | 1   | 06/24/20 21:50 | 06/25/20 21:52 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)                                   | <383     | ug/kg | 383    | 383    | 1   | 06/24/20 21:50 | 06/25/20 21:52 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)                                   | <383     | ug/kg | 383    | 383    | 1   | 06/24/20 21:50 | 06/25/20 21:52 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)                                   | <383     | ug/kg | 383    | 383    | 1   | 06/24/20 21:50 | 06/25/20 21:52 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)                                   | <383     | ug/kg | 383    | 383    | 1   | 06/24/20 21:50 | 06/25/20 21:52 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)                                   | <383     | ug/kg | 383    | 383    | 1   | 06/24/20 21:50 | 06/25/20 21:52 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)                                   | <383     | ug/kg | 383    | 383    | 1   | 06/24/20 21:50 | 06/25/20 21:52 | 11096-82-5 |      |
| PCB-1262 (Aroclor 1262)                                   | <383     | ug/kg | 383    | 383    | 1   | 06/24/20 21:50 | 06/25/20 21:52 | 37324-23-5 | N2   |
| PCB-1268 (Aroclor 1268)                                   | <383     | ug/kg | 383    | 383    | 1   | 06/24/20 21:50 | 06/25/20 21:52 | 11100-14-4 | N2   |
| <b>Surrogates</b>   |          |       |        |        |     |                |                |            |      |
| Tetrachloro-m-xylene (S)                                  | 57       | %     | 25-123 |        | 1   | 06/24/20 21:50 | 06/25/20 21:52 | 877-09-8   |      |
| <b>6010 MET ICP</b>                                       |          |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050  |          |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                   |          |       |        |        |     |                |                |            |      |
| Antimony  | <1080    | ug/kg | 1080   | 1080   | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7440-36-0  |      |
| Arsenic   | 2770     | ug/kg | 2160   | 2160   | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7440-38-2  |      |
| Barium  | 21400    | ug/kg | 1080   | 1080   | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7440-39-3  |      |
| Beryllium   | <539     | ug/kg | 539    | 539    | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7440-41-7  |      |
| Boron   | <8620    | ug/kg | 8620   | 8620   | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7440-42-8  |      |
| Calcium   | 62400000 | ug/kg | 539000 | 71500  | 10  | 06/26/20 14:44 | 06/29/20 12:55 | 7440-70-2  |      |
| Chromium  | 7200     | ug/kg | 2160   | 2160   | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7440-47-3  |      |
| Copper  | 8240     | ug/kg | 1080   | 1080   | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7440-50-8  |      |
| Iron  | 5040000  | ug/kg | 26900  | 8190   | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7439-89-6  |      |
| Lead  | <10800   | ug/kg | 10800  | 10800  | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7439-92-1  |      |
| Magnesium   | 5520000  | ug/kg | 26900  | 4310   | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7439-95-4  |      |
| Manganese   | 110000   | ug/kg | 1080   | 1080   | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7439-96-5  |      |
| Molybdenum  | 1870     | ug/kg | 1080   | 1080   | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7439-98-7  |      |
| Nickel  | 5840     | ug/kg | 1080   | 1080   | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7440-02-0  |      |
| Potassium   | 390000   | ug/kg | 53900  | 5270   | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7440-09-7  |      |
| Sodium  | 90100    | ug/kg | 26900  | 14700  | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7440-23-5  |      |
| Strontium   | 45900    | ug/kg | 5390   | 5390   | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7440-24-6  |      |
| Vanadium  | 12000    | ug/kg | 1080   | 1080   | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7440-62-2  |      |
| Zinc  | 17800    | ug/kg | 1080   | 1080   | 1   | 06/26/20 14:44 | 06/29/20 12:23 | 7440-66-6  |      |
| <b>6020 MET ICPMS</b>                                     |          |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B |          |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                   |          |       |        |        |     |                |                |            |      |
| Aluminum  | 4160000  | ug/kg | 110000 | 110000 | 100 | 06/24/20 09:22 | 06/30/20 01:22 | 7429-90-5  |      |
| Cadmium   | <220     | ug/kg | 220    | 220    | 1   | 06/24/20 09:22 | 06/25/20 15:35 | 7440-43-9  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-128 (4-5)**      **Lab ID: 50260268009**      Collected: 06/15/20 09:45      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL   | MDL  | DF  | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|-------|------|-----|----------------|----------------|-----------|------|
| <b>6020 MET ICPMS</b>                                     |         |       |       |      |     |                |                |           |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B |         |       |       |      |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |      |     |                |                |           |      |
| Cobalt  | 1520    | ug/kg | 550   | 550  | 1   | 06/24/20 09:22 | 06/25/20 15:35 | 7440-48-4 |      |
| Selenium  | 223     | ug/kg | 220   | 220  | 1   | 06/24/20 09:22 | 06/25/20 15:35 | 7782-49-2 |      |
| Silver  | <110    | ug/kg | 110   | 110  | 1   | 06/24/20 09:22 | 06/25/20 15:35 | 7440-22-4 |      |
| Thallium  | <550    | ug/kg | 550   | 550  | 1   | 06/24/20 09:22 | 06/25/20 15:35 | 7440-28-0 |      |
| Titanium  | 275000  | ug/kg | 11000 | 2920 | 100 | 06/24/20 09:22 | 06/30/20 01:22 | 7440-32-6 | N2   |
| <b>7471 Mercury</b>                                       |         |       |       |      |     |                |                |           |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471  |         |       |       |      |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |      |     |                |                |           |      |
| Mercury   | <95.6   | ug/kg | 121   | 95.6 | 1   | 06/26/20 02:49 | 06/26/20 07:35 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                  |         |       |       |      |     |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546  |         |       |       |      |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |      |     |                |                |           |      |
| Acenaphthene  | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 83-32-9   |      |
| Acenaphthylene  | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 208-96-8  |      |
| Anthracene  | 841     | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 120-12-7  |      |
| Benzo(a)anthracene  | 1510    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 56-55-3   |      |
| Benzo(a)pyrene  | 765     | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 50-32-8   |      |
| Benzo(b)fluoranthene                                      | 1110    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 205-99-2  |      |
| Benzo(g,h,i)perylene                                      | 545     | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 191-24-2  |      |
| Benzo(k)fluoranthene                                      | 496     | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 207-08-9  |      |
| 4-Bromophenylphenyl ether                                 | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 101-55-3  |      |
| Butylbenzylphthalate                                      | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 85-68-7   |      |
| Carbazole   | 620     | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                   | <363    | ug/kg | 427   | 363  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                                | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                  | <207    | ug/kg | 427   | 207  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                              | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 108-60-1  |      |
| 2-Chloronaphthalene                                       | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 91-58-7   |      |
| 2-Chlorophenol  | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                                | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 7005-72-3 |      |
| Chrysene  | 1280    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                     | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 53-70-3   |      |
| Dibenzofuran  | 988     | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 132-64-9  |      |
| 2,4-Dichlorophenol  | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 120-83-2  |      |
| Diethylphthalate  | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 84-66-2   |      |
| 2,4-Dimethylphenol  | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 105-67-9  |      |
| Dimethylphthalate   | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 131-11-3  |      |
| Di-n-butylphthalate                                       | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                                | <1070   | ug/kg | 1070  | 1070 | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 534-52-1  |      |
| 2,4-Dinitrophenol   | <2070   | ug/kg | 2070  | 2070 | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 51-28-5   |      |
| 2,4-Dinitrotoluene  | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 121-14-2  |      |
| 2,6-Dinitrotoluene  | <115    | ug/kg | 427   | 115  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 606-20-2  |      |
| Di-n-octylphthalate                                       | <427    | ug/kg | 427   | 427  | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                     | <2070   | ug/kg | 2070  | 2070 | 1   | 06/26/20 14:45 | 06/29/20 23:27 | 122-66-7  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-128 (4-5)**      **Lab ID: 50260268009**      Collected: 06/15/20 09:45      Received: 06/18/20 09:25      Matrix: Solid  
*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                    |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| bis(2-Ethylhexyl)phthalate                                  | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 117-81-7  |      |
| Fluoranthene  | 5490    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 206-44-0  |      |
| Fluorene  | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                    | <124    | ug/kg | 427    | 124  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 87-68-3   |      |
| Hexachlorobenzene   | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                   | <1290   | ug/kg | 1290   | 1290 | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 77-47-4   |      |
| Hexachloroethane  | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                      | 454     | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 193-39-5  |      |
| Isophorone  | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 78-59-1   |      |
| 2-Methylnaphthalene   | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                    | <1290   | ug/kg | 1290   | 1290 | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                                | <1290   | ug/kg | 1290   | 1290 | 1  | 06/26/20 14:45 | 06/29/20 23:27 |           |      |
| Naphthalene   | 591     | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 91-20-3   |      |
| 2-Nitroaniline  | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 88-74-4   |      |
| 3-Nitroaniline  | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 99-09-2   |      |
| 4-Nitroaniline  | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 100-01-6  |      |
| Nitrobenzene  | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 98-95-3   |      |
| 2-Nitrophenol   | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 88-75-5   |      |
| 4-Nitrophenol   | <2070   | ug/kg | 2070   | 2070 | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 100-02-7  |      |
| N-Nitrosodimethylamine                                      | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                                  | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                      | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 86-30-6   |      |
| Pentachlorophenol   | <1900   | ug/kg | 2070   | 1900 | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 87-86-5   |      |
| Phenanthrene  | 6780    | ug/kg | 2140   | 2140 | 5  | 06/26/20 14:45 | 06/30/20 13:16 | 85-01-8   |      |
| Phenol  | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 108-95-2  |      |
| Pyrene  | 4370    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                      | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                       | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                       | <427    | ug/kg | 427    | 427  | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 88-06-2   |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)   | 58      | %     | 26-96  |      | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 4165-60-0 |      |
| Phenol-d5 (S)   | 60      | %     | 32-93  |      | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 4165-62-2 |      |
| 2-Fluorophenol (S)  | 25      | %     | 24-95  |      | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                    | 10      | %     | 20-109 |      | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 118-79-6  | S0   |
| 2-Fluorobiphenyl (S)  | 64      | %     | 36-91  |      | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 83      | %     | 27-117 |      | 1  | 06/26/20 14:45 | 06/29/20 23:27 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                              |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                                 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| Acetone   | <1310   | ug/kg | 1310   | 1310 | 1  |                | 06/24/20 08:03 | 67-64-1   |      |
| Acrylonitrile   | <131    | ug/kg | 131    | 131  | 1  |                | 06/24/20 08:03 | 107-13-1  |      |
| tert-Amylmethyl ether                                       | <327    | ug/kg | 327    | 327  | 1  |                | 06/24/20 08:03 | 994-05-8  | N2   |
| Benzene   | <65.5   | ug/kg | 65.5   | 65.5 | 1  |                | 06/24/20 08:03 | 71-43-2   |      |
| Bromobenzene  | <131    | ug/kg | 131    | 131  | 1  |                | 06/24/20 08:03 | 108-86-1  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

Sample: MW-128 (4-5) Lab ID: 50260268009 Collected: 06/15/20 09:45 Received: 06/18/20 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Bromochloromethane             | <32.7   | ug/kg  | 65.5 | 32.7 | 1  |          | 06/24/20 08:03 | 74-97-5    |      |
| Bromodichloromethane           | <131    | ug/kg  | 131  | 131  | 1  |          | 06/24/20 08:03 | 75-27-4    |      |
| Bromoform                      | <131    | ug/kg  | 131  | 131  | 1  |          | 06/24/20 08:03 | 75-25-2    |      |
| Bromomethane                   | <262    | ug/kg  | 262  | 262  | 1  |          | 06/24/20 08:03 | 74-83-9    |      |
| 2-Butanone (MEK)               | <982    | ug/kg  | 982  | 982  | 1  |          | 06/24/20 08:03 | 78-93-3    |      |
| tert-Butyl Alcohol             | <3270   | ug/kg  | 3270 | 3270 | 1  |          | 06/24/20 08:03 | 75-65-0    |      |
| n-Butylbenzene                 | <65.5   | ug/kg  | 65.5 | 65.5 | 1  |          | 06/24/20 08:03 | 104-51-8   |      |
| sec-Butylbenzene               | <65.5   | ug/kg  | 65.5 | 65.5 | 1  |          | 06/24/20 08:03 | 135-98-8   |      |
| tert-Butylbenzene              | <65.5   | ug/kg  | 65.5 | 65.5 | 1  |          | 06/24/20 08:03 | 98-06-6    |      |
| Carbon disulfide               | <327    | ug/kg  | 327  | 327  | 1  |          | 06/24/20 08:03 | 75-15-0    |      |
| Carbon tetrachloride           | <65.5   | ug/kg  | 65.5 | 65.5 | 1  |          | 06/24/20 08:03 | 56-23-5    |      |
| Chlorobenzene                  | <65.5   | ug/kg  | 65.5 | 65.5 | 1  |          | 06/24/20 08:03 | 108-90-7   |      |
| Chloroethane                   | <327    | ug/kg  | 327  | 327  | 1  |          | 06/24/20 08:03 | 75-00-3    |      |
| Chloroform                     | <65.5   | ug/kg  | 65.5 | 65.5 | 1  |          | 06/24/20 08:03 | 67-66-3    |      |
| Chloromethane                  | <327    | ug/kg  | 327  | 327  | 1  |          | 06/24/20 08:03 | 74-87-3    |      |
| Cyclohexane                    | <655    | ug/kg  | 655  | 655  | 1  |          | 06/24/20 08:03 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <65.5   | ug/kg  | 65.5 | 65.5 | 1  |          | 06/24/20 08:03 | 96-12-8    |      |
| Dibromochloromethane           | <131    | ug/kg  | 131  | 131  | 1  |          | 06/24/20 08:03 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <65.5   | ug/kg  | 65.5 | 65.5 | 1  |          | 06/24/20 08:03 | 106-93-4   |      |
| Dibromomethane                 | <327    | ug/kg  | 327  | 327  | 1  |          | 06/24/20 08:03 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <131    | ug/kg  | 131  | 131  | 1  |          | 06/24/20 08:03 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <131    | ug/kg  | 131  | 131  | 1  |          | 06/24/20 08:03 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <131    | ug/kg  | 131  | 131  | 1  |          | 06/24/20 08:03 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <131    | ug/kg  | 1310 | 131  | 1  |          | 06/24/20 08:03 | 110-57-6   |      |
| Dichlorodifluoromethane        | <327    | ug/kg  | 327  | 327  | 1  |          | 06/24/20 08:03 | 75-71-8    |      |
| 1,1-Dichloroethane             | <65.5   | ug/kg  | 65.5 | 65.5 | 1  |          | 06/24/20 08:03 | 75-34-3    |      |
| 1,2-Dichloroethane             | <65.5   | ug/kg  | 65.5 | 65.5 | 1  |          | 06/24/20 08:03 | 107-06-2   |      |
| 1,1-Dichloroethene             | <65.5   | ug/kg  | 65.5 | 65.5 | 1  |          | 06/24/20 08:03 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <65.5   | ug/kg  | 65.5 | 65.5 | 1  |          | 06/24/20 08:03 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <65.5   | ug/kg  | 65.5 | 65.5 | 1  |          | 06/24/20 08:03 | 156-60-5   |      |
| 1,2-Dichloropropane            | <65.5   | ug/kg  | 65.5 | 65.5 | 1  |          | 06/24/20 08:03 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <131    | ug/kg  | 131  | 131  | 1  |          | 06/24/20 08:03 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <131    | ug/kg  | 131  | 131  | 1  |          | 06/24/20 08:03 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <262    | ug/kg  | 262  | 262  | 1  |          | 06/24/20 08:03 | 60-29-7    |      |
| Diisopropyl ether              | <327    | ug/kg  | 327  | 327  | 1  |          | 06/24/20 08:03 | 108-20-3   | N2   |
| Ethylbenzene                   | <65.5   | ug/kg  | 65.5 | 65.5 | 1  |          | 06/24/20 08:03 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <327    | ug/kg  | 327  | 327  | 1  |          | 06/24/20 08:03 | 637-92-3   | N2   |
| Hexachloroethane               | <393    | ug/kg  | 393  | 393  | 1  |          | 06/24/20 08:03 | 67-72-1    | N2   |
| 2-Hexanone                     | <3270   | ug/kg  | 3270 | 3270 | 1  |          | 06/24/20 08:03 | 591-78-6   |      |
| Iodomethane                    | <131    | ug/kg  | 1310 | 131  | 1  |          | 06/24/20 08:03 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <327    | ug/kg  | 327  | 327  | 1  |          | 06/24/20 08:03 | 98-82-8    |      |
| p-Isopropyltoluene             | <32.7   | ug/kg  | 65.5 | 32.7 | 1  |          | 06/24/20 08:03 | 99-87-6    |      |
| Methylene Chloride             | <131    | ug/kg  | 131  | 131  | 1  |          | 06/24/20 08:03 | 75-09-2    |      |
| 2-Methylnaphthalene            | <432    | ug/kg  | 432  | 432  | 1  |          | 06/24/20 08:03 | 91-57-6    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-128 (4-5)**      **Lab ID: 50260268009**      Collected: 06/15/20 09:45      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| 4-Methyl-2-pentanone (MIBK)             | <3270   | ug/kg | 3270   | 3270 | 1  |          | 06/24/20 08:03 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <327    | ug/kg | 327    | 327  | 1  |          | 06/24/20 08:03 | 1634-04-4   |      |
| Naphthalene                             | <432    | ug/kg | 432    | 432  | 1  |          | 06/24/20 08:03 | 91-20-3     |      |
| n-Propylbenzene                         | <131    | ug/kg | 131    | 131  | 1  |          | 06/24/20 08:03 | 103-65-1    |      |
| Styrene                                 | <65.5   | ug/kg | 65.5   | 65.5 | 1  |          | 06/24/20 08:03 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <131    | ug/kg | 131    | 131  | 1  |          | 06/24/20 08:03 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <65.5   | ug/kg | 65.5   | 65.5 | 1  |          | 06/24/20 08:03 | 79-34-5     |      |
| Tetrachloroethene                       | <65.5   | ug/kg | 65.5   | 65.5 | 1  |          | 06/24/20 08:03 | 127-18-4    |      |
| Tetrahydrofuran                         | <1310   | ug/kg | 1310   | 1310 | 1  |          | 06/24/20 08:03 | 109-99-9    | N2   |
| Toluene                                 | <131    | ug/kg | 131    | 131  | 1  |          | 06/24/20 08:03 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <327    | ug/kg | 327    | 327  | 1  |          | 06/24/20 08:03 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <327    | ug/kg | 327    | 327  | 1  |          | 06/24/20 08:03 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <65.5   | ug/kg | 65.5   | 65.5 | 1  |          | 06/24/20 08:03 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <65.5   | ug/kg | 65.5   | 65.5 | 1  |          | 06/24/20 08:03 | 79-00-5     |      |
| Trichloroethene                         | <65.5   | ug/kg | 65.5   | 65.5 | 1  |          | 06/24/20 08:03 | 79-01-6     |      |
| Trichlorofluoromethane                  | <131    | ug/kg | 131    | 131  | 1  |          | 06/24/20 08:03 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <131    | ug/kg | 131    | 131  | 1  |          | 06/24/20 08:03 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <327    | ug/kg | 327    | 327  | 1  |          | 06/24/20 08:03 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <131    | ug/kg | 131    | 131  | 1  |          | 06/24/20 08:03 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <131    | ug/kg | 131    | 131  | 1  |          | 06/24/20 08:03 | 108-67-8    |      |
| Vinyl chloride                          | <52.4   | ug/kg | 52.4   | 52.4 | 1  |          | 06/24/20 08:03 | 75-01-4     |      |
| m&p-Xylene                              | <32.7   | ug/kg | 65.5   | 32.7 | 1  |          | 06/24/20 08:03 | 179601-23-1 |      |
| o-Xylene                                | <32.7   | ug/kg | 65.5   | 32.7 | 1  |          | 06/24/20 08:03 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 120     | %     | 62-137 |      | 1  |          | 06/24/20 08:03 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 114     | %     | 64-139 |      | 1  |          | 06/24/20 08:03 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 119     | %     | 60-142 |      | 1  |          | 06/24/20 08:03 | 460-00-4    |      |

**Percent Moisture**

Analytical Method: SM 2540G  
Pace Analytical Services - Indianapolis

|                  |      |   |      |      |   |  |                |  |  |
|------------------|------|---|------|------|---|--|----------------|--|--|
| Percent Moisture | 14.5 | % | 0.10 | 0.10 | 1 |  | 06/23/20 14:20 |  |  |
|------------------|------|---|------|------|---|--|----------------|--|--|

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

**Sample: MW-128 (8-9)**      **Lab ID: 50260268010**      Collected: 06/15/20 09:47      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL   | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|-------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                     |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |       |       |    |                |                |           |      |
| n-Butanol  | <4890   | ug/kg | 4890  | 4890  | 1  |                | 06/22/20 17:44 | 71-36-3   |      |
| Ethanol  | <2780   | ug/kg | 2780  | 2780  | 1  |                | 06/22/20 17:44 | 64-17-5   |      |
| Methanol   | <4890   | ug/kg | 4890  | 4890  | 1  |                | 06/22/20 17:44 | 67-56-1   |      |
| <b>6010 MET ICP</b>  |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050  |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |       |       |    |                |                |           |      |
| Antimony   | <961    | ug/kg | 961   | 961   | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7440-36-0 |      |
| Arsenic  | <1920   | ug/kg | 1920  | 1920  | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7440-38-2 |      |
| Barium   | 7670    | ug/kg | 961   | 961   | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7440-39-3 |      |
| Beryllium  | <480    | ug/kg | 480   | 480   | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7440-41-7 |      |
| Boron  | <7690   | ug/kg | 7690  | 7690  | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7440-42-8 |      |
| Calcium  | 663000  | ug/kg | 48000 | 6370  | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7440-70-2 |      |
| Chromium   | 6740    | ug/kg | 1920  | 1920  | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7440-47-3 |      |
| Copper   | 2900    | ug/kg | 961   | 961   | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7440-50-8 |      |
| Iron   | 3950000 | ug/kg | 24000 | 7300  | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7439-89-6 |      |
| Lead   | <9610   | ug/kg | 9610  | 9610  | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7439-92-1 |      |
| Magnesium  | 1110000 | ug/kg | 24000 | 3840  | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7439-95-4 |      |
| Manganese  | 148000  | ug/kg | 961   | 961   | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7439-96-5 |      |
| Molybdenum   | <961    | ug/kg | 961   | 961   | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7439-98-7 |      |
| Nickel   | 5440    | ug/kg | 961   | 961   | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7440-02-0 |      |
| Potassium  | 232000  | ug/kg | 48000 | 4700  | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7440-09-7 |      |
| Sodium   | 26100   | ug/kg | 24000 | 13100 | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7440-23-5 |      |
| Strontium  | <4800   | ug/kg | 4800  | 4800  | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7440-24-6 |      |
| Vanadium   | 6710    | ug/kg | 961   | 961   | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7440-62-2 |      |
| Zinc   | 9870    | ug/kg | 961   | 961   | 1  | 06/26/20 14:44 | 06/29/20 12:25 | 7440-66-6 |      |
| <b>6020 MET ICPMS</b>  |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |       |       |    |                |                |           |      |
| Aluminum   | 2900000 | ug/kg | 54000 | 54000 | 50 | 06/24/20 09:22 | 06/30/20 01:27 | 7429-90-5 |      |
| Cadmium  | <216    | ug/kg | 216   | 216   | 1  | 06/24/20 09:22 | 06/25/20 15:44 | 7440-43-9 |      |
| Cobalt   | 1640    | ug/kg | 540   | 540   | 1  | 06/24/20 09:22 | 06/25/20 15:44 | 7440-48-4 |      |
| Selenium   | <1080   | ug/kg | 1080  | 1080  | 5  | 06/24/20 09:22 | 06/30/20 02:45 | 7782-49-2 | D3   |
| Silver   | <108    | ug/kg | 108   | 108   | 1  | 06/24/20 09:22 | 06/25/20 15:44 | 7440-22-4 |      |
| Thallium   | <540    | ug/kg | 540   | 540   | 1  | 06/24/20 09:22 | 06/25/20 15:44 | 7440-28-0 |      |
| Titanium   | 179000  | ug/kg | 5400  | 1440  | 50 | 06/24/20 09:22 | 06/30/20 01:27 | 7440-32-6 | N2   |
| <b>7471 Mercury</b>  |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 7471      Preparation Method: EPA 7471  |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |       |       |    |                |                |           |      |
| Mercury  | <93.4   | ug/kg | 118   | 93.4  | 1  | 06/26/20 02:49 | 06/26/20 07:38 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                       |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 8270      Preparation Method: EPA 3546  |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |       |       |    |                |                |           |      |
| Acenaphthene   | <347    | ug/kg | 347   | 347   | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 83-32-9   |      |
| Acenaphthylene   | <347    | ug/kg | 347   | 347   | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 208-96-8  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-128 (8-9)**      **Lab ID: 50260268010**      Collected: 06/15/20 09:47      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                    |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |      |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |      |      |    |                |                |           |      |
| Anthracene  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 120-12-7  |      |
| Benzo(a)anthracene  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 56-55-3   |      |
| Benzo(a)pyrene  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 207-08-9  |      |
| 4-Bromophenylphenyl ether                                   | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 101-55-3  |      |
| Butylbenzylphthalate  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 85-68-7   |      |
| Carbazole   | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                     | <295    | ug/kg | 347  | 295  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                                  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                    | <168    | ug/kg | 347  | 168  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                                | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 108-60-1  |      |
| 2-Chloronaphthalene   | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 91-58-7   |      |
| 2-Chlorophenol  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                                  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 7005-72-3 |      |
| Chrysene  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                       | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 53-70-3   |      |
| Dibenzofuran  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 132-64-9  |      |
| 2,4-Dichlorophenol  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 120-83-2  |      |
| Diethylphthalate  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 84-66-2   |      |
| 2,4-Dimethylphenol  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 105-67-9  |      |
| Dimethylphthalate   | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 131-11-3  |      |
| Di-n-butylphthalate   | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                                  | <873    | ug/kg | 873  | 873  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 534-52-1  |      |
| 2,4-Dinitrophenol   | <1680   | ug/kg | 1680 | 1680 | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 51-28-5   |      |
| 2,4-Dinitrotoluene  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 121-14-2  |      |
| 2,6-Dinitrotoluene  | <93.1   | ug/kg | 347  | 93.1 | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 606-20-2  |      |
| Di-n-octylphthalate   | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                       | <1680   | ug/kg | 1680 | 1680 | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate                                  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 117-81-7  |      |
| Fluoranthene  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 206-44-0  |      |
| Fluorene  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                    | <101    | ug/kg | 347  | 101  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 87-68-3   |      |
| Hexachlorobenzene   | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                   | <1050   | ug/kg | 1050 | 1050 | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 77-47-4   |      |
| Hexachloroethane  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                      | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 193-39-5  |      |
| Isophorone  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 78-59-1   |      |
| 2-Methylnaphthalene   | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                    | <1050   | ug/kg | 1050 | 1050 | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                                | <1050   | ug/kg | 1050 | 1050 | 1  | 06/23/20 12:30 | 06/24/20 14:24 |           |      |
| Naphthalene   | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 91-20-3   |      |
| 2-Nitroaniline  | <347    | ug/kg | 347  | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 88-74-4   |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-128 (8-9)**      **Lab ID: 50260268010**      Collected: 06/15/20 09:47      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                 |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |        |      |    |                |                |           |      |
| 3-Nitroaniline   | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 99-09-2   |      |
| 4-Nitroaniline   | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 100-01-6  |      |
| Nitrobenzene   | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 98-95-3   |      |
| 2-Nitrophenol  | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 88-75-5   |      |
| 4-Nitrophenol  | <1680   | ug/kg | 1680   | 1680 | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 100-02-7  |      |
| N-Nitrosodimethylamine                                   | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                               | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                   | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 86-30-6   |      |
| Pentachlorophenol  | <1550   | ug/kg | 1680   | 1550 | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 87-86-5   |      |
| Phenanthrene   | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 85-01-8   |      |
| Phenol   | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 108-95-2  |      |
| Pyrene   | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                   | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                    | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                    | <347    | ug/kg | 347    | 347  | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)                                      | 43      | %     | 26-96  |      | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 4165-60-0 |      |
| Phenol-d5 (S)  | 79      | %     | 32-93  |      | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 4165-62-2 |      |
| 2-Fluorophenol (S)                                       | 81      | %     | 24-95  |      | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                 | 74      | %     | 20-109 |      | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 118-79-6  |      |
| 2-Fluorobiphenyl (S)                                     | 121     | %     | 36-91  |      | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 321-60-8  | S3   |
| p-Terphenyl-d14 (S)                                      | 92      | %     | 27-117 |      | 1  | 06/23/20 12:30 | 06/24/20 14:24 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                           |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                              |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |        |      |    |                |                |           |      |
| Acetone  | <1270   | ug/kg | 1270   | 1270 | 1  |                | 06/24/20 08:36 | 67-64-1   |      |
| Acrylonitrile  | <127    | ug/kg | 127    | 127  | 1  |                | 06/24/20 08:36 | 107-13-1  |      |
| tert-Amylmethyl ether                                    | <317    | ug/kg | 317    | 317  | 1  |                | 06/24/20 08:36 | 994-05-8  | N2   |
| Benzene  | <63.5   | ug/kg | 63.5   | 63.5 | 1  |                | 06/24/20 08:36 | 71-43-2   |      |
| Bromobenzene   | <127    | ug/kg | 127    | 127  | 1  |                | 06/24/20 08:36 | 108-86-1  |      |
| Bromochloromethane                                       | <31.7   | ug/kg | 63.5   | 31.7 | 1  |                | 06/24/20 08:36 | 74-97-5   |      |
| Bromodichloromethane                                     | <127    | ug/kg | 127    | 127  | 1  |                | 06/24/20 08:36 | 75-27-4   |      |
| Bromoform  | <127    | ug/kg | 127    | 127  | 1  |                | 06/24/20 08:36 | 75-25-2   |      |
| Bromomethane   | <254    | ug/kg | 254    | 254  | 1  |                | 06/24/20 08:36 | 74-83-9   |      |
| 2-Butanone (MEK)   | <952    | ug/kg | 952    | 952  | 1  |                | 06/24/20 08:36 | 78-93-3   |      |
| tert-Butyl Alcohol                                       | <3170   | ug/kg | 3170   | 3170 | 1  |                | 06/24/20 08:36 | 75-65-0   |      |
| n-Butylbenzene   | <63.5   | ug/kg | 63.5   | 63.5 | 1  |                | 06/24/20 08:36 | 104-51-8  |      |
| sec-Butylbenzene   | <63.5   | ug/kg | 63.5   | 63.5 | 1  |                | 06/24/20 08:36 | 135-98-8  |      |
| tert-Butylbenzene  | <63.5   | ug/kg | 63.5   | 63.5 | 1  |                | 06/24/20 08:36 | 98-06-6   |      |
| Carbon disulfide   | <317    | ug/kg | 317    | 317  | 1  |                | 06/24/20 08:36 | 75-15-0   |      |
| Carbon tetrachloride                                     | <63.5   | ug/kg | 63.5   | 63.5 | 1  |                | 06/24/20 08:36 | 56-23-5   |      |
| Chlorobenzene  | <63.5   | ug/kg | 63.5   | 63.5 | 1  |                | 06/24/20 08:36 | 108-90-7  |      |
| Chloroethane   | <317    | ug/kg | 317    | 317  | 1  |                | 06/24/20 08:36 | 75-00-3   |      |
| Chloroform   | <63.5   | ug/kg | 63.5   | 63.5 | 1  |                | 06/24/20 08:36 | 67-66-3   |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

**Sample: MW-128 (8-9)**      **Lab ID: 50260268010**      Collected: 06/15/20 09:47      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Chloromethane                  | <317    | ug/kg  | 317  | 317  | 1  |          | 06/24/20 08:36 | 74-87-3    |      |
| Cyclohexane                    | <635    | ug/kg  | 635  | 635  | 1  |          | 06/24/20 08:36 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <63.5   | ug/kg  | 63.5 | 63.5 | 1  |          | 06/24/20 08:36 | 96-12-8    |      |
| Dibromochloromethane           | <127    | ug/kg  | 127  | 127  | 1  |          | 06/24/20 08:36 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <63.5   | ug/kg  | 63.5 | 63.5 | 1  |          | 06/24/20 08:36 | 106-93-4   |      |
| Dibromomethane                 | <317    | ug/kg  | 317  | 317  | 1  |          | 06/24/20 08:36 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <127    | ug/kg  | 127  | 127  | 1  |          | 06/24/20 08:36 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <127    | ug/kg  | 127  | 127  | 1  |          | 06/24/20 08:36 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <127    | ug/kg  | 127  | 127  | 1  |          | 06/24/20 08:36 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <127    | ug/kg  | 1270 | 127  | 1  |          | 06/24/20 08:36 | 110-57-6   |      |
| Dichlorodifluoromethane        | <317    | ug/kg  | 317  | 317  | 1  |          | 06/24/20 08:36 | 75-71-8    |      |
| 1,1-Dichloroethane             | <63.5   | ug/kg  | 63.5 | 63.5 | 1  |          | 06/24/20 08:36 | 75-34-3    |      |
| 1,2-Dichloroethane             | <63.5   | ug/kg  | 63.5 | 63.5 | 1  |          | 06/24/20 08:36 | 107-06-2   |      |
| 1,1-Dichloroethene             | <63.5   | ug/kg  | 63.5 | 63.5 | 1  |          | 06/24/20 08:36 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <63.5   | ug/kg  | 63.5 | 63.5 | 1  |          | 06/24/20 08:36 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <63.5   | ug/kg  | 63.5 | 63.5 | 1  |          | 06/24/20 08:36 | 156-60-5   |      |
| 1,2-Dichloropropane            | <63.5   | ug/kg  | 63.5 | 63.5 | 1  |          | 06/24/20 08:36 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <127    | ug/kg  | 127  | 127  | 1  |          | 06/24/20 08:36 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <127    | ug/kg  | 127  | 127  | 1  |          | 06/24/20 08:36 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <254    | ug/kg  | 254  | 254  | 1  |          | 06/24/20 08:36 | 60-29-7    |      |
| Diisopropyl ether              | <317    | ug/kg  | 317  | 317  | 1  |          | 06/24/20 08:36 | 108-20-3   | N2   |
| Ethylbenzene                   | <63.5   | ug/kg  | 63.5 | 63.5 | 1  |          | 06/24/20 08:36 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <317    | ug/kg  | 317  | 317  | 1  |          | 06/24/20 08:36 | 637-92-3   | N2   |
| Hexachloroethane               | <381    | ug/kg  | 381  | 381  | 1  |          | 06/24/20 08:36 | 67-72-1    | N2   |
| 2-Hexanone                     | <3170   | ug/kg  | 3170 | 3170 | 1  |          | 06/24/20 08:36 | 591-78-6   |      |
| Iodomethane                    | <127    | ug/kg  | 1270 | 127  | 1  |          | 06/24/20 08:36 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <317    | ug/kg  | 317  | 317  | 1  |          | 06/24/20 08:36 | 98-82-8    |      |
| p-Isopropyltoluene             | <31.7   | ug/kg  | 63.5 | 31.7 | 1  |          | 06/24/20 08:36 | 99-87-6    |      |
| Methylene Chloride             | <127    | ug/kg  | 127  | 127  | 1  |          | 06/24/20 08:36 | 75-09-2    |      |
| 2-Methylnaphthalene            | <419    | ug/kg  | 419  | 419  | 1  |          | 06/24/20 08:36 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)    | <3170   | ug/kg  | 3170 | 3170 | 1  |          | 06/24/20 08:36 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <317    | ug/kg  | 317  | 317  | 1  |          | 06/24/20 08:36 | 1634-04-4  |      |
| Naphthalene                    | <419    | ug/kg  | 419  | 419  | 1  |          | 06/24/20 08:36 | 91-20-3    |      |
| n-Propylbenzene                | <127    | ug/kg  | 127  | 127  | 1  |          | 06/24/20 08:36 | 103-65-1   |      |
| Styrene                        | <63.5   | ug/kg  | 63.5 | 63.5 | 1  |          | 06/24/20 08:36 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <127    | ug/kg  | 127  | 127  | 1  |          | 06/24/20 08:36 | 630-20-6   |      |
| 1,1,1,2,2-Tetrachloroethane    | <63.5   | ug/kg  | 63.5 | 63.5 | 1  |          | 06/24/20 08:36 | 79-34-5    |      |
| Tetrachloroethene              | <63.5   | ug/kg  | 63.5 | 63.5 | 1  |          | 06/24/20 08:36 | 127-18-4   |      |
| Tetrahydrofuran                | <1270   | ug/kg  | 1270 | 1270 | 1  |          | 06/24/20 08:36 | 109-99-9   | N2   |
| Toluene                        | <127    | ug/kg  | 127  | 127  | 1  |          | 06/24/20 08:36 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene         | <317    | ug/kg  | 317  | 317  | 1  |          | 06/24/20 08:36 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene         | <317    | ug/kg  | 317  | 317  | 1  |          | 06/24/20 08:36 | 120-82-1   |      |
| 1,1,1-Trichloroethane          | <63.5   | ug/kg  | 63.5 | 63.5 | 1  |          | 06/24/20 08:36 | 71-55-6    |      |
| 1,1,2-Trichloroethane          | <63.5   | ug/kg  | 63.5 | 63.5 | 1  |          | 06/24/20 08:36 | 79-00-5    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

**Sample: MW-128 (8-9)**      **Lab ID: 50260268010**      Collected: 06/15/20 09:47      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|---------|--|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Trichloroethene                | <63.5   | ug/kg  | 63.5   | 63.5 | 1  |          | 06/24/20 08:36 | 79-01-6     |      |
| Trichlorofluoromethane         | <127    | ug/kg  | 127    | 127  | 1  |          | 06/24/20 08:36 | 75-69-4     |      |
| 1,2,3-Trichloropropane         | <127    | ug/kg  | 127    | 127  | 1  |          | 06/24/20 08:36 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene         | <317    | ug/kg  | 317    | 317  | 1  |          | 06/24/20 08:36 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene         | <127    | ug/kg  | 127    | 127  | 1  |          | 06/24/20 08:36 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | <127    | ug/kg  | 127    | 127  | 1  |          | 06/24/20 08:36 | 108-67-8    |      |
| Vinyl chloride                 | <50.8   | ug/kg  | 50.8   | 50.8 | 1  |          | 06/24/20 08:36 | 75-01-4     |      |
| m&p-Xylene                     | <31.7   | ug/kg  | 63.5   | 31.7 | 1  |          | 06/24/20 08:36 | 179601-23-1 |      |
| o-Xylene                       | <31.7   | ug/kg  | 63.5   | 31.7 | 1  |          | 06/24/20 08:36 | 95-47-6     |      |
| <b>Surrogates</b>              |         |  |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)       | 113     | %  | 62-137 |      | 1  |          | 06/24/20 08:36 | 1868-53-7   |      |
| Toluene-d8 (S)                 | 110     | %  | 64-139 |      | 1  |          | 06/24/20 08:36 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)       | 113     | %  | 60-142 |      | 1  |          | 06/24/20 08:36 | 460-00-4    |      |
| <b>Percent Moisture</b>        |         | Analytical Method: SM 2540G<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Percent Moisture               | 10.0    | %  | 0.10   | 0.10 | 1  |          | 06/23/20 14:20 |             |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

**Sample: MW-129 (3-4)**      **Lab ID: 50260268011**      Collected: 06/15/20 11:56      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results  | Units | PQL    | MDL   | DF  | Prepared       | Analyzed       | CAS No.   | Qual |
|--|----------|-------|--------|-------|-----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                |          |       |        |       |     |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                     |          |       |        |       |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |       |     |                |                |           |      |
| n-Butanol  | <4620    | ug/kg | 4620   | 4620  | 1   |                | 06/22/20 17:54 | 71-36-3   |      |
| Ethanol  | <2620    | ug/kg | 2620   | 2620  | 1   |                | 06/22/20 17:54 | 64-17-5   |      |
| Methanol   | <4620    | ug/kg | 4620   | 4620  | 1   |                | 06/22/20 17:54 | 67-56-1   |      |
| <b>6010 MET ICP</b>  |          |       |        |       |     |                |                |           |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050  |          |       |        |       |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |       |     |                |                |           |      |
| Antimony   | <926     | ug/kg | 926    | 926   | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7440-36-0 |      |
| Arsenic  | 2450     | ug/kg | 1850   | 1850  | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7440-38-2 |      |
| Barium   | 23100    | ug/kg | 926    | 926   | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7440-39-3 |      |
| Beryllium  | <463     | ug/kg | 463    | 463   | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7440-41-7 |      |
| Boron  | <7410    | ug/kg | 7410   | 7410  | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7440-42-8 |      |
| Calcium  | 24200000 | ug/kg | 231000 | 30700 | 5   | 06/26/20 14:44 | 06/29/20 12:52 | 7440-70-2 |      |
| Chromium   | 8290     | ug/kg | 1850   | 1850  | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7440-47-3 |      |
| Copper   | 20800    | ug/kg | 926    | 926   | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7440-50-8 |      |
| Iron   | 6060000  | ug/kg | 23100  | 7040  | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7439-89-6 |      |
| Lead   | 47200    | ug/kg | 9260   | 9260  | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7439-92-1 |      |
| Magnesium  | 3800000  | ug/kg | 23100  | 3700  | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7439-95-4 |      |
| Manganese  | 92200    | ug/kg | 926    | 926   | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7439-96-5 |      |
| Molybdenum   | <926     | ug/kg | 926    | 926   | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7439-98-7 |      |
| Nickel   | 5930     | ug/kg | 926    | 926   | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7440-02-0 |      |
| Potassium  | 336000   | ug/kg | 46300  | 4530  | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7440-09-7 |      |
| Sodium   | 72400    | ug/kg | 23100  | 12600 | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7440-23-5 |      |
| Strontium  | 30000    | ug/kg | 4630   | 4630  | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7440-24-6 |      |
| Vanadium   | 10200    | ug/kg | 926    | 926   | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7440-62-2 |      |
| Zinc   | 43600    | ug/kg | 926    | 926   | 1   | 06/26/20 14:44 | 06/29/20 12:27 | 7440-66-6 |      |
| <b>6020 MET ICPMS</b>  |          |       |        |       |     |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B |          |       |        |       |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |       |     |                |                |           |      |
| Aluminum   | 4190000  | ug/kg | 99900  | 99900 | 100 | 06/24/20 09:22 | 06/30/20 01:31 | 7429-90-5 |      |
| Cadmium  | 316      | ug/kg | 200    | 200   | 1   | 06/24/20 09:22 | 06/25/20 15:58 | 7440-43-9 |      |
| Cobalt   | 1610     | ug/kg | 500    | 500   | 1   | 06/24/20 09:22 | 06/25/20 15:58 | 7440-48-4 |      |
| Selenium   | <999     | ug/kg | 999    | 999   | 5   | 06/24/20 09:22 | 06/30/20 02:50 | 7782-49-2 | D3   |
| Silver   | <99.9    | ug/kg | 99.9   | 99.9  | 1   | 06/24/20 09:22 | 06/25/20 15:58 | 7440-22-4 |      |
| Thallium   | <500     | ug/kg | 500    | 500   | 1   | 06/24/20 09:22 | 06/25/20 15:58 | 7440-28-0 |      |
| Titanium   | 247000   | ug/kg | 9990   | 2660  | 100 | 06/24/20 09:22 | 06/30/20 01:31 | 7440-32-6 | N2   |
| <b>7471 Mercury</b>  |          |       |        |       |     |                |                |           |      |
| Analytical Method: EPA 7471      Preparation Method: EPA 7471  |          |       |        |       |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |       |     |                |                |           |      |
| Mercury  | 666      | ug/kg | 106    | 83.5  | 1   | 06/26/20 02:49 | 06/26/20 07:40 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                       |          |       |        |       |     |                |                |           |      |
| Analytical Method: EPA 8270      Preparation Method: EPA 3546  |          |       |        |       |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |       |     |                |                |           |      |
| Acenaphthene   | <1630    | ug/kg | 1630   | 1630  | 5   | 06/23/20 12:30 | 06/24/20 14:42 | 83-32-9   |      |
| Acenaphthylene   | <1630    | ug/kg | 1630   | 1630  | 5   | 06/23/20 12:30 | 06/24/20 14:42 | 208-96-8  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-129 (3-4)**      **Lab ID: 50260268011**      Collected: 06/15/20 11:56      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                 |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |      |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |      |      |    |                |                |           |      |
| Anthracene   | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 120-12-7  |      |
| Benzo(a)anthracene                                       | 1650    | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 56-55-3   |      |
| Benzo(a)pyrene   | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 50-32-8   |      |
| Benzo(b)fluoranthene                                     | 2220    | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 205-99-2  |      |
| Benzo(g,h,i)perylene                                     | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 191-24-2  |      |
| Benzo(k)fluoranthene                                     | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 207-08-9  |      |
| 4-Bromophenylphenyl ether                                | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 101-55-3  |      |
| Butylbenzylphthalate                                     | 90700   | ug/kg | 8150 | 8150 | 25 | 06/23/20 12:30 | 06/25/20 17:36 | 85-68-7   |      |
| Carbazole  | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                  | <1380   | ug/kg | 1630 | 1380 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                               | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                 | <790    | ug/kg | 1630 | 790  | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                             | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 108-60-1  |      |
| 2-Chloronaphthalene                                      | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 91-58-7   |      |
| 2-Chlorophenol   | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                               | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 7005-72-3 |      |
| Chrysene   | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                    | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 53-70-3   |      |
| Dibenzofuran   | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 132-64-9  |      |
| 2,4-Dichlorophenol                                       | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 120-83-2  |      |
| Diethylphthalate   | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 84-66-2   |      |
| 2,4-Dimethylphenol                                       | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 105-67-9  |      |
| Dimethylphthalate  | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 131-11-3  |      |
| Di-n-butylphthalate                                      | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                               | <4100   | ug/kg | 4100 | 4100 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 534-52-1  |      |
| 2,4-Dinitrophenol  | <7900   | ug/kg | 7900 | 7900 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 51-28-5   |      |
| 2,4-Dinitrotoluene                                       | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 121-14-2  |      |
| 2,6-Dinitrotoluene                                       | <437    | ug/kg | 1630 | 437  | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 606-20-2  |      |
| Di-n-octylphthalate                                      | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                    | <7900   | ug/kg | 7900 | 7900 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate                               | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 117-81-7  |      |
| Fluoranthene   | 2960    | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 206-44-0  |      |
| Fluorene   | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                 | <474    | ug/kg | 1630 | 474  | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 87-68-3   |      |
| Hexachlorobenzene  | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                | <4940   | ug/kg | 4940 | 4940 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 77-47-4   |      |
| Hexachloroethane   | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                   | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 193-39-5  |      |
| Isophorone   | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 78-59-1   |      |
| 2-Methylnaphthalene                                      | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                 | <4940   | ug/kg | 4940 | 4940 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                             | <4940   | ug/kg | 4940 | 4940 | 5  | 06/23/20 12:30 | 06/24/20 14:42 |           |      |
| Naphthalene  | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 91-20-3   |      |
| 2-Nitroaniline   | <1630   | ug/kg | 1630 | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 88-74-4   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-129 (3-4)**      **Lab ID: 50260268011**      Collected: 06/15/20 11:56      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                 |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |        |      |    |                |                |           |      |
| 3-Nitroaniline   | <1630   | ug/kg | 1630   | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 99-09-2   |      |
| 4-Nitroaniline   | <1630   | ug/kg | 1630   | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 100-01-6  |      |
| Nitrobenzene   | <1630   | ug/kg | 1630   | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 98-95-3   |      |
| 2-Nitrophenol  | <1630   | ug/kg | 1630   | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 88-75-5   |      |
| 4-Nitrophenol  | <7900   | ug/kg | 7900   | 7900 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 100-02-7  |      |
| N-Nitrosodimethylamine                                   | <1630   | ug/kg | 1630   | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                               | <1630   | ug/kg | 1630   | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                   | <1630   | ug/kg | 1630   | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 86-30-6   |      |
| Pentachlorophenol  | <7260   | ug/kg | 7900   | 7260 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 87-86-5   |      |
| Phenanthrene   | 1870    | ug/kg | 1630   | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 85-01-8   |      |
| Phenol   | <1630   | ug/kg | 1630   | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 108-95-2  | ED   |
| Pyrene   | 2620    | ug/kg | 1630   | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                   | <1630   | ug/kg | 1630   | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                    | <1630   | ug/kg | 1630   | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                    | <1630   | ug/kg | 1630   | 1630 | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)                                      | 58      | %     | 26-96  |      | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 4165-60-0 |      |
| Phenol-d5 (S)  | 73      | %     | 32-93  |      | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 4165-62-2 |      |
| 2-Fluorophenol (S)                                       | 83      | %     | 24-95  |      | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                 | 73      | %     | 20-109 |      | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 118-79-6  |      |
| 2-Fluorobiphenyl (S)                                     | 92      | %     | 36-91  |      | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 321-60-8  | S0   |
| p-Terphenyl-d14 (S)                                      | 97      | %     | 27-117 |      | 5  | 06/23/20 12:30 | 06/24/20 14:42 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                           |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                              |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |        |      |    |                |                |           |      |
| Acetone  | <1020   | ug/kg | 1020   | 1020 | 1  |                | 06/24/20 09:09 | 67-64-1   |      |
| Acrylonitrile  | <102    | ug/kg | 102    | 102  | 1  |                | 06/24/20 09:09 | 107-13-1  |      |
| tert-Amylmethyl ether                                    | <255    | ug/kg | 255    | 255  | 1  |                | 06/24/20 09:09 | 994-05-8  | N2   |
| Benzene  | <51.0   | ug/kg | 51.0   | 51.0 | 1  |                | 06/24/20 09:09 | 71-43-2   |      |
| Bromobenzene   | <102    | ug/kg | 102    | 102  | 1  |                | 06/24/20 09:09 | 108-86-1  |      |
| Bromochloromethane                                       | <25.5   | ug/kg | 51.0   | 25.5 | 1  |                | 06/24/20 09:09 | 74-97-5   |      |
| Bromodichloromethane                                     | <102    | ug/kg | 102    | 102  | 1  |                | 06/24/20 09:09 | 75-27-4   |      |
| Bromoform  | <102    | ug/kg | 102    | 102  | 1  |                | 06/24/20 09:09 | 75-25-2   |      |
| Bromomethane   | <204    | ug/kg | 204    | 204  | 1  |                | 06/24/20 09:09 | 74-83-9   |      |
| 2-Butanone (MEK)   | <766    | ug/kg | 766    | 766  | 1  |                | 06/24/20 09:09 | 78-93-3   |      |
| tert-Butyl Alcohol                                       | <2550   | ug/kg | 2550   | 2550 | 1  |                | 06/24/20 09:09 | 75-65-0   |      |
| n-Butylbenzene   | <51.0   | ug/kg | 51.0   | 51.0 | 1  |                | 06/24/20 09:09 | 104-51-8  |      |
| sec-Butylbenzene   | <51.0   | ug/kg | 51.0   | 51.0 | 1  |                | 06/24/20 09:09 | 135-98-8  |      |
| tert-Butylbenzene  | <51.0   | ug/kg | 51.0   | 51.0 | 1  |                | 06/24/20 09:09 | 98-06-6   |      |
| Carbon disulfide   | <255    | ug/kg | 255    | 255  | 1  |                | 06/24/20 09:09 | 75-15-0   |      |
| Carbon tetrachloride                                     | <51.0   | ug/kg | 51.0   | 51.0 | 1  |                | 06/24/20 09:09 | 56-23-5   |      |
| Chlorobenzene  | <51.0   | ug/kg | 51.0   | 51.0 | 1  |                | 06/24/20 09:09 | 108-90-7  |      |
| Chloroethane   | <255    | ug/kg | 255    | 255  | 1  |                | 06/24/20 09:09 | 75-00-3   |      |
| Chloroform   | <51.0   | ug/kg | 51.0   | 51.0 | 1  |                | 06/24/20 09:09 | 67-66-3   |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

**Sample: MW-129 (3-4)**      **Lab ID: 50260268011**      Collected: 06/15/20 11:56      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Chloromethane                  | <255    | ug/kg  | 255  | 255  | 1  |          | 06/24/20 09:09 | 74-87-3    |      |
| Cyclohexane                    | <510    | ug/kg  | 510  | 510  | 1  |          | 06/24/20 09:09 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 06/24/20 09:09 | 96-12-8    |      |
| Dibromochloromethane           | <102    | ug/kg  | 102  | 102  | 1  |          | 06/24/20 09:09 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 06/24/20 09:09 | 106-93-4   |      |
| Dibromomethane                 | <255    | ug/kg  | 255  | 255  | 1  |          | 06/24/20 09:09 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <102    | ug/kg  | 102  | 102  | 1  |          | 06/24/20 09:09 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <102    | ug/kg  | 102  | 102  | 1  |          | 06/24/20 09:09 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <102    | ug/kg  | 102  | 102  | 1  |          | 06/24/20 09:09 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <102    | ug/kg  | 1020 | 102  | 1  |          | 06/24/20 09:09 | 110-57-6   |      |
| Dichlorodifluoromethane        | <255    | ug/kg  | 255  | 255  | 1  |          | 06/24/20 09:09 | 75-71-8    |      |
| 1,1-Dichloroethane             | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 06/24/20 09:09 | 75-34-3    |      |
| 1,2-Dichloroethane             | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 06/24/20 09:09 | 107-06-2   |      |
| 1,1-Dichloroethene             | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 06/24/20 09:09 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 06/24/20 09:09 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 06/24/20 09:09 | 156-60-5   |      |
| 1,2-Dichloropropane            | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 06/24/20 09:09 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <102    | ug/kg  | 102  | 102  | 1  |          | 06/24/20 09:09 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <102    | ug/kg  | 102  | 102  | 1  |          | 06/24/20 09:09 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <204    | ug/kg  | 204  | 204  | 1  |          | 06/24/20 09:09 | 60-29-7    |      |
| Diisopropyl ether              | <255    | ug/kg  | 255  | 255  | 1  |          | 06/24/20 09:09 | 108-20-3   | N2   |
| Ethylbenzene                   | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 06/24/20 09:09 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <255    | ug/kg  | 255  | 255  | 1  |          | 06/24/20 09:09 | 637-92-3   | N2   |
| Hexachloroethane               | <306    | ug/kg  | 306  | 306  | 1  |          | 06/24/20 09:09 | 67-72-1    | N2   |
| 2-Hexanone                     | <2550   | ug/kg  | 2550 | 2550 | 1  |          | 06/24/20 09:09 | 591-78-6   |      |
| Iodomethane                    | <102    | ug/kg  | 1020 | 102  | 1  |          | 06/24/20 09:09 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <255    | ug/kg  | 255  | 255  | 1  |          | 06/24/20 09:09 | 98-82-8    |      |
| p-Isopropyltoluene             | <25.5   | ug/kg  | 51.0 | 25.5 | 1  |          | 06/24/20 09:09 | 99-87-6    |      |
| Methylene Chloride             | <102    | ug/kg  | 102  | 102  | 1  |          | 06/24/20 09:09 | 75-09-2    |      |
| 2-Methylnaphthalene            | <337    | ug/kg  | 337  | 337  | 1  |          | 06/24/20 09:09 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)    | <2550   | ug/kg  | 2550 | 2550 | 1  |          | 06/24/20 09:09 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <255    | ug/kg  | 255  | 255  | 1  |          | 06/24/20 09:09 | 1634-04-4  |      |
| Naphthalene                    | <337    | ug/kg  | 337  | 337  | 1  |          | 06/24/20 09:09 | 91-20-3    |      |
| n-Propylbenzene                | <102    | ug/kg  | 102  | 102  | 1  |          | 06/24/20 09:09 | 103-65-1   |      |
| Styrene                        | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 06/24/20 09:09 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <102    | ug/kg  | 102  | 102  | 1  |          | 06/24/20 09:09 | 630-20-6   |      |
| 1,1,1,2,2-Tetrachloroethane    | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 06/24/20 09:09 | 79-34-5    |      |
| Tetrachloroethene              | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 06/24/20 09:09 | 127-18-4   |      |
| Tetrahydrofuran                | <1020   | ug/kg  | 1020 | 1020 | 1  |          | 06/24/20 09:09 | 109-99-9   | N2   |
| Toluene                        | <102    | ug/kg  | 102  | 102  | 1  |          | 06/24/20 09:09 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene         | <255    | ug/kg  | 255  | 255  | 1  |          | 06/24/20 09:09 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene         | <255    | ug/kg  | 255  | 255  | 1  |          | 06/24/20 09:09 | 120-82-1   |      |
| 1,1,1-Trichloroethane          | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 06/24/20 09:09 | 71-55-6    |      |
| 1,1,2-Trichloroethane          | <51.0   | ug/kg  | 51.0 | 51.0 | 1  |          | 06/24/20 09:09 | 79-00-5    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-129 (3-4)**      **Lab ID: 50260268011**      Collected: 06/15/20 11:56      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Trichloroethene                         | <51.0   | ug/kg | 51.0   | 51.0 | 1  |          | 06/24/20 09:09 | 79-01-6     |      |
| Trichlorofluoromethane                  | <102    | ug/kg | 102    | 102  | 1  |          | 06/24/20 09:09 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <102    | ug/kg | 102    | 102  | 1  |          | 06/24/20 09:09 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <255    | ug/kg | 255    | 255  | 1  |          | 06/24/20 09:09 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <102    | ug/kg | 102    | 102  | 1  |          | 06/24/20 09:09 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <102    | ug/kg | 102    | 102  | 1  |          | 06/24/20 09:09 | 108-67-8    |      |
| Vinyl chloride                          | <40.8   | ug/kg | 40.8   | 40.8 | 1  |          | 06/24/20 09:09 | 75-01-4     |      |
| m&p-Xylene                              | <25.5   | ug/kg | 51.0   | 25.5 | 1  |          | 06/24/20 09:09 | 179601-23-1 |      |
| o-Xylene                                | <25.5   | ug/kg | 51.0   | 25.5 | 1  |          | 06/24/20 09:09 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 104     | %     | 62-137 |      | 1  |          | 06/24/20 09:09 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 100     | %     | 64-139 |      | 1  |          | 06/24/20 09:09 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 104     | %     | 60-142 |      | 1  |          | 06/24/20 09:09 | 460-00-4    |      |
| <b>Percent Moisture</b>                 |         |       |        |      |    |          |                |             |      |
| Analytical Method: SM 2540G             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Percent Moisture                        | 4.7     | %     | 0.10   | 0.10 | 1  |          | 06/23/20 14:21 |             |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-130 (4-5)**      **Lab ID: 50260268012**      Collected: 06/15/20 14:22      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL    | DF  | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|--------|--------|-----|----------------|----------------|------------|------|
| <b>8015M Alcohols in solids</b>                                |         |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                     |         |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |            |      |
| n-Butanol  | <4650   | ug/kg | 4650   | 4650   | 1   |                | 06/22/20 18:03 | 71-36-3    |      |
| Ethanol  | <2640   | ug/kg | 2640   | 2640   | 1   |                | 06/22/20 18:03 | 64-17-5    |      |
| Methanol   | <4650   | ug/kg | 4650   | 4650   | 1   |                | 06/22/20 18:03 | 67-56-1    |      |
| <b>8082 GCS PCB Solids</b>                                     |         |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 8082      Preparation Method: EPA 3546  |         |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |            |      |
| PCB-1016 (Aroclor 1016)  | <349    | ug/kg | 349    | 349    | 1   | 06/24/20 21:50 | 06/25/20 18:22 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)  | <349    | ug/kg | 349    | 349    | 1   | 06/24/20 21:50 | 06/25/20 18:22 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)  | <349    | ug/kg | 349    | 349    | 1   | 06/24/20 21:50 | 06/25/20 18:22 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)  | <349    | ug/kg | 349    | 349    | 1   | 06/24/20 21:50 | 06/25/20 18:22 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)  | <349    | ug/kg | 349    | 349    | 1   | 06/24/20 21:50 | 06/25/20 18:22 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)  | <349    | ug/kg | 349    | 349    | 1   | 06/24/20 21:50 | 06/25/20 18:22 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)  | <349    | ug/kg | 349    | 349    | 1   | 06/24/20 21:50 | 06/25/20 18:22 | 11096-82-5 |      |
| PCB-1262 (Aroclor 1262)  | <349    | ug/kg | 349    | 349    | 1   | 06/24/20 21:50 | 06/25/20 18:22 | 37324-23-5 | N2   |
| PCB-1268 (Aroclor 1268)  | <349    | ug/kg | 349    | 349    | 1   | 06/24/20 21:50 | 06/25/20 18:22 | 11100-14-4 | N2   |
| <b>Surrogates</b>  |         |       |        |        |     |                |                |            |      |
| Tetrachloro-m-xylene (S)                                       | 75      | %     | 25-123 |        | 1   | 06/24/20 21:50 | 06/25/20 18:22 | 877-09-8   |      |
| <b>6010 MET ICP</b>  |         |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050  |         |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |            |      |
| Antimony   | <985    | ug/kg | 985    | 985    | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7440-36-0  |      |
| Arsenic  | <1970   | ug/kg | 1970   | 1970   | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7440-38-2  |      |
| Barium   | 9000    | ug/kg | 985    | 985    | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7440-39-3  |      |
| Beryllium  | <492    | ug/kg | 492    | 492    | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7440-41-7  |      |
| Boron  | <7880   | ug/kg | 7880   | 7880   | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7440-42-8  |      |
| Calcium  | 927000  | ug/kg | 49200  | 6530   | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7440-70-2  |      |
| Chromium   | 5510    | ug/kg | 1970   | 1970   | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7440-47-3  |      |
| Copper   | 1440    | ug/kg | 985    | 985    | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7440-50-8  |      |
| Iron   | 3160000 | ug/kg | 24600  | 7480   | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7439-89-6  |      |
| Lead   | <9850   | ug/kg | 9850   | 9850   | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7439-92-1  |      |
| Magnesium  | 730000  | ug/kg | 24600  | 3940   | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7439-95-4  |      |
| Manganese  | 25900   | ug/kg | 985    | 985    | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7439-96-5  |      |
| Molybdenum   | <985    | ug/kg | 985    | 985    | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7439-98-7  |      |
| Nickel   | 4170    | ug/kg | 985    | 985    | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7440-02-0  |      |
| Potassium  | 143000  | ug/kg | 49200  | 4810   | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7440-09-7  |      |
| Sodium   | 21700J  | ug/kg | 24600  | 13400  | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7440-23-5  |      |
| Strontium  | <4920   | ug/kg | 4920   | 4920   | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7440-24-6  |      |
| Vanadium   | 7980    | ug/kg | 985    | 985    | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7440-62-2  |      |
| Zinc   | 9160    | ug/kg | 985    | 985    | 1   | 06/26/20 14:44 | 06/29/20 12:30 | 7440-66-6  |      |
| <b>6020 MET ICPMS</b>  |         |       |        |        |     |                |                |            |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B |         |       |        |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |            |      |
| Aluminum   | 4020000 | ug/kg | 105000 | 105000 | 100 | 06/24/20 09:22 | 06/30/20 01:36 | 7429-90-5  |      |
| Cadmium  | <210    | ug/kg | 210    | 210    | 1   | 06/24/20 09:22 | 06/25/20 16:07 | 7440-43-9  |      |

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-130 (4-5)**      **Lab ID: 50260268012**      Collected: 06/15/20 14:22      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL   | MDL  | DF  | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|-------|------|-----|----------------|----------------|-----------|------|
| <b>6020 MET ICPMS</b>                                     |         |       |       |      |     |                |                |           |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B |         |       |       |      |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |      |     |                |                |           |      |
| Cobalt  | 1260    | ug/kg | 526   | 526  | 1   | 06/24/20 09:22 | 06/25/20 16:07 | 7440-48-4 |      |
| Selenium  | <210    | ug/kg | 210   | 210  | 1   | 06/24/20 09:22 | 06/25/20 16:07 | 7782-49-2 |      |
| Silver  | <105    | ug/kg | 105   | 105  | 1   | 06/24/20 09:22 | 06/25/20 16:07 | 7440-22-4 |      |
| Thallium  | <526    | ug/kg | 526   | 526  | 1   | 06/24/20 09:22 | 06/25/20 16:07 | 7440-28-0 |      |
| Titanium  | 229000  | ug/kg | 10500 | 2800 | 100 | 06/24/20 09:22 | 06/30/20 01:36 | 7440-32-6 | N2   |
| <b>7471 Mercury</b>                                       |         |       |       |      |     |                |                |           |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471  |         |       |       |      |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |      |     |                |                |           |      |
| Mercury   | <83.0   | ug/kg | 105   | 83.0 | 1   | 06/26/20 02:49 | 06/26/20 07:42 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                  |         |       |       |      |     |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546  |         |       |       |      |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |       |      |     |                |                |           |      |
| Acenaphthene  | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 83-32-9   |      |
| Acenaphthylene  | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 208-96-8  |      |
| Anthracene  | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 120-12-7  |      |
| Benzo(a)anthracene  | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 56-55-3   |      |
| Benzo(a)pyrene  | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 50-32-8   |      |
| Benzo(b)fluoranthene                                      | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 205-99-2  |      |
| Benzo(g,h,i)perylene                                      | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 191-24-2  |      |
| Benzo(k)fluoranthene                                      | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 207-08-9  |      |
| 4-Bromophenylphenyl ether                                 | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 101-55-3  |      |
| Butylbenzylphthalate                                      | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 85-68-7   |      |
| Carbazole   | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                   | <295    | ug/kg | 348   | 295  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                                | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                  | <169    | ug/kg | 348   | 169  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                              | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 108-60-1  |      |
| 2-Chloronaphthalene                                       | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 91-58-7   |      |
| 2-Chlorophenol  | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                                | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 7005-72-3 |      |
| Chrysene  | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                     | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 53-70-3   |      |
| Dibenzofuran  | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 132-64-9  |      |
| 2,4-Dichlorophenol  | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 120-83-2  |      |
| Diethylphthalate  | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 84-66-2   |      |
| 2,4-Dimethylphenol  | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 105-67-9  |      |
| Dimethylphthalate   | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 131-11-3  |      |
| Di-n-butylphthalate                                       | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                                | <875    | ug/kg | 875   | 875  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 534-52-1  |      |
| 2,4-Dinitrophenol   | <1690   | ug/kg | 1690  | 1690 | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 51-28-5   |      |
| 2,4-Dinitrotoluene  | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 121-14-2  |      |
| 2,6-Dinitrotoluene  | <93.3   | ug/kg | 348   | 93.3 | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 606-20-2  |      |
| Di-n-octylphthalate                                       | <348    | ug/kg | 348   | 348  | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                     | <1690   | ug/kg | 1690  | 1690 | 1   | 06/24/20 23:00 | 06/25/20 19:21 | 122-66-7  |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-130 (4-5)**      **Lab ID: 50260268012**      Collected: 06/15/20 14:22      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                    |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| bis(2-Ethylhexyl)phthalate                                  | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 117-81-7  |      |
| Fluoranthene  | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 206-44-0  | L1   |
| Fluorene  | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                    | <101    | ug/kg | 348    | 101  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 87-68-3   |      |
| Hexachlorobenzene   | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                   | <1050   | ug/kg | 1050   | 1050 | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 77-47-4   |      |
| Hexachloroethane  | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                      | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 193-39-5  |      |
| Isophorone  | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 78-59-1   |      |
| 2-Methylnaphthalene   | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                    | <1050   | ug/kg | 1050   | 1050 | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                                | <1050   | ug/kg | 1050   | 1050 | 1  | 06/24/20 23:00 | 06/25/20 19:21 |           |      |
| Naphthalene   | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 91-20-3   |      |
| 2-Nitroaniline  | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 88-74-4   |      |
| 3-Nitroaniline  | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 99-09-2   |      |
| 4-Nitroaniline  | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 100-01-6  |      |
| Nitrobenzene  | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 98-95-3   |      |
| 2-Nitrophenol   | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 88-75-5   |      |
| 4-Nitrophenol   | <1690   | ug/kg | 1690   | 1690 | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 100-02-7  |      |
| N-Nitrosodimethylamine                                      | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                                  | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                      | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 86-30-6   |      |
| Pentachlorophenol   | <1550   | ug/kg | 1690   | 1550 | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 87-86-5   |      |
| Phenanthrene  | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 85-01-8   |      |
| Phenol  | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 108-95-2  |      |
| Pyrene  | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                      | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                       | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                       | <348    | ug/kg | 348    | 348  | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 88-06-2   |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)   | 52      | %     | 26-96  |      | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 4165-60-0 |      |
| Phenol-d5 (S)   | 77      | %     | 32-93  |      | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 4165-62-2 |      |
| 2-Fluorophenol (S)  | 90      | %     | 24-95  |      | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                    | 78      | %     | 20-109 |      | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 118-79-6  |      |
| 2-Fluorobiphenyl (S)  | 78      | %     | 36-91  |      | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 79      | %     | 27-117 |      | 1  | 06/24/20 23:00 | 06/25/20 19:21 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                              |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                                 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| Acetone   | <991    | ug/kg | 991    | 991  | 1  |                | 06/24/20 09:43 | 67-64-1   |      |
| Acrylonitrile   | <99.1   | ug/kg | 99.1   | 99.1 | 1  |                | 06/24/20 09:43 | 107-13-1  |      |
| tert-Amylmethyl ether                                       | <248    | ug/kg | 248    | 248  | 1  |                | 06/24/20 09:43 | 994-05-8  | N2   |
| Benzene   | <49.6   | ug/kg | 49.6   | 49.6 | 1  |                | 06/24/20 09:43 | 71-43-2   |      |
| Bromobenzene  | <99.1   | ug/kg | 99.1   | 99.1 | 1  |                | 06/24/20 09:43 | 108-86-1  |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

**Sample: MW-130 (4-5)**      **Lab ID: 50260268012**      Collected: 06/15/20 14:22      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Bromochloromethane             | <24.8   | ug/kg  | 49.6 | 24.8 | 1  |          | 06/24/20 09:43 | 74-97-5    |      |
| Bromodichloromethane           | <99.1   | ug/kg  | 99.1 | 99.1 | 1  |          | 06/24/20 09:43 | 75-27-4    |      |
| Bromoform                      | <99.1   | ug/kg  | 99.1 | 99.1 | 1  |          | 06/24/20 09:43 | 75-25-2    |      |
| Bromomethane                   | <198    | ug/kg  | 198  | 198  | 1  |          | 06/24/20 09:43 | 74-83-9    |      |
| 2-Butanone (MEK)               | <743    | ug/kg  | 743  | 743  | 1  |          | 06/24/20 09:43 | 78-93-3    |      |
| tert-Butyl Alcohol             | <2480   | ug/kg  | 2480 | 2480 | 1  |          | 06/24/20 09:43 | 75-65-0    |      |
| n-Butylbenzene                 | <49.6   | ug/kg  | 49.6 | 49.6 | 1  |          | 06/24/20 09:43 | 104-51-8   |      |
| sec-Butylbenzene               | <49.6   | ug/kg  | 49.6 | 49.6 | 1  |          | 06/24/20 09:43 | 135-98-8   |      |
| tert-Butylbenzene              | <49.6   | ug/kg  | 49.6 | 49.6 | 1  |          | 06/24/20 09:43 | 98-06-6    |      |
| Carbon disulfide               | <248    | ug/kg  | 248  | 248  | 1  |          | 06/24/20 09:43 | 75-15-0    |      |
| Carbon tetrachloride           | <49.6   | ug/kg  | 49.6 | 49.6 | 1  |          | 06/24/20 09:43 | 56-23-5    |      |
| Chlorobenzene                  | <49.6   | ug/kg  | 49.6 | 49.6 | 1  |          | 06/24/20 09:43 | 108-90-7   |      |
| Chloroethane                   | <248    | ug/kg  | 248  | 248  | 1  |          | 06/24/20 09:43 | 75-00-3    |      |
| Chloroform                     | <49.6   | ug/kg  | 49.6 | 49.6 | 1  |          | 06/24/20 09:43 | 67-66-3    |      |
| Chloromethane                  | <248    | ug/kg  | 248  | 248  | 1  |          | 06/24/20 09:43 | 74-87-3    |      |
| Cyclohexane                    | <496    | ug/kg  | 496  | 496  | 1  |          | 06/24/20 09:43 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <49.6   | ug/kg  | 49.6 | 49.6 | 1  |          | 06/24/20 09:43 | 96-12-8    |      |
| Dibromochloromethane           | <99.1   | ug/kg  | 99.1 | 99.1 | 1  |          | 06/24/20 09:43 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <49.6   | ug/kg  | 49.6 | 49.6 | 1  |          | 06/24/20 09:43 | 106-93-4   |      |
| Dibromomethane                 | <248    | ug/kg  | 248  | 248  | 1  |          | 06/24/20 09:43 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <99.1   | ug/kg  | 99.1 | 99.1 | 1  |          | 06/24/20 09:43 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <99.1   | ug/kg  | 99.1 | 99.1 | 1  |          | 06/24/20 09:43 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <99.1   | ug/kg  | 99.1 | 99.1 | 1  |          | 06/24/20 09:43 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <99.1   | ug/kg  | 99.1 | 99.1 | 1  |          | 06/24/20 09:43 | 110-57-6   |      |
| Dichlorodifluoromethane        | <248    | ug/kg  | 248  | 248  | 1  |          | 06/24/20 09:43 | 75-71-8    |      |
| 1,1-Dichloroethane             | <49.6   | ug/kg  | 49.6 | 49.6 | 1  |          | 06/24/20 09:43 | 75-34-3    |      |
| 1,2-Dichloroethane             | <49.6   | ug/kg  | 49.6 | 49.6 | 1  |          | 06/24/20 09:43 | 107-06-2   |      |
| 1,1-Dichloroethene             | <49.6   | ug/kg  | 49.6 | 49.6 | 1  |          | 06/24/20 09:43 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <49.6   | ug/kg  | 49.6 | 49.6 | 1  |          | 06/24/20 09:43 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <49.6   | ug/kg  | 49.6 | 49.6 | 1  |          | 06/24/20 09:43 | 156-60-5   |      |
| 1,2-Dichloropropane            | <49.6   | ug/kg  | 49.6 | 49.6 | 1  |          | 06/24/20 09:43 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <99.1   | ug/kg  | 99.1 | 99.1 | 1  |          | 06/24/20 09:43 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <99.1   | ug/kg  | 99.1 | 99.1 | 1  |          | 06/24/20 09:43 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <198    | ug/kg  | 198  | 198  | 1  |          | 06/24/20 09:43 | 60-29-7    |      |
| Diisopropyl ether              | <248    | ug/kg  | 248  | 248  | 1  |          | 06/24/20 09:43 | 108-20-3   | N2   |
| Ethylbenzene                   | <49.6   | ug/kg  | 49.6 | 49.6 | 1  |          | 06/24/20 09:43 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <248    | ug/kg  | 248  | 248  | 1  |          | 06/24/20 09:43 | 637-92-3   | N2   |
| Hexachloroethane               | <297    | ug/kg  | 297  | 297  | 1  |          | 06/24/20 09:43 | 67-72-1    | N2   |
| 2-Hexanone                     | <2480   | ug/kg  | 2480 | 2480 | 1  |          | 06/24/20 09:43 | 591-78-6   |      |
| Iodomethane                    | <99.1   | ug/kg  | 99.1 | 99.1 | 1  |          | 06/24/20 09:43 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <248    | ug/kg  | 248  | 248  | 1  |          | 06/24/20 09:43 | 98-82-8    |      |
| p-Isopropyltoluene             | <24.8   | ug/kg  | 49.6 | 24.8 | 1  |          | 06/24/20 09:43 | 99-87-6    |      |
| Methylene Chloride             | <99.1   | ug/kg  | 99.1 | 99.1 | 1  |          | 06/24/20 09:43 | 75-09-2    |      |
| 2-Methylnaphthalene            | <327    | ug/kg  | 327  | 327  | 1  |          | 06/24/20 09:43 | 91-57-6    |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-130 (4-5)**      **Lab ID: 50260268012**      Collected: 06/15/20 14:22      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| 4-Methyl-2-pentanone (MIBK)             | <2480   | ug/kg | 2480   | 2480 | 1  |          | 06/24/20 09:43 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <248    | ug/kg | 248    | 248  | 1  |          | 06/24/20 09:43 | 1634-04-4   |      |
| Naphthalene                             | <327    | ug/kg | 327    | 327  | 1  |          | 06/24/20 09:43 | 91-20-3     |      |
| n-Propylbenzene                         | <99.1   | ug/kg | 99.1   | 99.1 | 1  |          | 06/24/20 09:43 | 103-65-1    |      |
| Styrene                                 | <49.6   | ug/kg | 49.6   | 49.6 | 1  |          | 06/24/20 09:43 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <99.1   | ug/kg | 99.1   | 99.1 | 1  |          | 06/24/20 09:43 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <49.6   | ug/kg | 49.6   | 49.6 | 1  |          | 06/24/20 09:43 | 79-34-5     |      |
| Tetrachloroethene                       | <49.6   | ug/kg | 49.6   | 49.6 | 1  |          | 06/24/20 09:43 | 127-18-4    |      |
| Tetrahydrofuran                         | <991    | ug/kg | 991    | 991  | 1  |          | 06/24/20 09:43 | 109-99-9    | N2   |
| Toluene                                 | <99.1   | ug/kg | 99.1   | 99.1 | 1  |          | 06/24/20 09:43 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <248    | ug/kg | 248    | 248  | 1  |          | 06/24/20 09:43 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <248    | ug/kg | 248    | 248  | 1  |          | 06/24/20 09:43 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <49.6   | ug/kg | 49.6   | 49.6 | 1  |          | 06/24/20 09:43 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <49.6   | ug/kg | 49.6   | 49.6 | 1  |          | 06/24/20 09:43 | 79-00-5     |      |
| Trichloroethene                         | <49.6   | ug/kg | 49.6   | 49.6 | 1  |          | 06/24/20 09:43 | 79-01-6     |      |
| Trichlorofluoromethane                  | <99.1   | ug/kg | 99.1   | 99.1 | 1  |          | 06/24/20 09:43 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <99.1   | ug/kg | 99.1   | 99.1 | 1  |          | 06/24/20 09:43 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <248    | ug/kg | 248    | 248  | 1  |          | 06/24/20 09:43 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <99.1   | ug/kg | 99.1   | 99.1 | 1  |          | 06/24/20 09:43 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <99.1   | ug/kg | 99.1   | 99.1 | 1  |          | 06/24/20 09:43 | 108-67-8    |      |
| Vinyl chloride                          | <39.6   | ug/kg | 39.6   | 39.6 | 1  |          | 06/24/20 09:43 | 75-01-4     |      |
| m&p-Xylene                              | <24.8   | ug/kg | 49.6   | 24.8 | 1  |          | 06/24/20 09:43 | 179601-23-1 |      |
| o-Xylene                                | <24.8   | ug/kg | 49.6   | 24.8 | 1  |          | 06/24/20 09:43 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 104     | %     | 62-137 |      | 1  |          | 06/24/20 09:43 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 102     | %     | 64-139 |      | 1  |          | 06/24/20 09:43 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 105     | %     | 60-142 |      | 1  |          | 06/24/20 09:43 | 460-00-4    |      |

**Percent Moisture**

Analytical Method: SM 2540G  
Pace Analytical Services - Indianapolis

|                  |     |   |      |      |   |  |                |  |  |
|------------------|-----|---|------|------|---|--|----------------|--|--|
| Percent Moisture | 5.4 | % | 0.10 | 0.10 | 1 |  | 06/23/20 14:21 |  |  |
|------------------|-----|---|------|------|---|--|----------------|--|--|

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

Sample: MW-131 (2-3) Lab ID: 50260268013 Collected: 06/15/20 13:55 Received: 06/18/20 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters  | Results | Units | PQL    | MDL    | DF  | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|--------|-----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                           |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |        |        |     |                |                |           |      |
| n-Butanol   | <5650   | ug/kg | 5650   | 5650   | 1   |                | 06/22/20 18:12 | 71-36-3   |      |
| Ethanol   | <3210   | ug/kg | 3210   | 3210   | 1   |                | 06/22/20 18:12 | 64-17-5   |      |
| Methanol  | <5650   | ug/kg | 5650   | 5650   | 1   |                | 06/22/20 18:12 | 67-56-1   |      |
| <b>6010 MET ICP</b>                                       |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050  |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |        |        |     |                |                |           |      |
| Antimony  | <1140   | ug/kg | 1140   | 1140   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7440-36-0 |      |
| Arsenic   | <2290   | ug/kg | 2290   | 2290   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7440-38-2 |      |
| Barium  | 14300   | ug/kg | 1140   | 1140   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7440-39-3 |      |
| Beryllium   | <572    | ug/kg | 572    | 572    | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7440-41-7 |      |
| Boron   | <9160   | ug/kg | 9160   | 9160   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7440-42-8 |      |
| Calcium   | 2600000 | ug/kg | 57200  | 7590   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7440-70-2 |      |
| Chromium  | 7550    | ug/kg | 2290   | 2290   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7440-47-3 |      |
| Copper  | 6650    | ug/kg | 1140   | 1140   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7440-50-8 |      |
| Iron  | 5240000 | ug/kg | 28600  | 8700   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7439-89-6 |      |
| Lead  | 16800   | ug/kg | 11400  | 11400  | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7439-92-1 |      |
| Magnesium   | 1130000 | ug/kg | 28600  | 4580   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7439-95-4 |      |
| Manganese   | 66400   | ug/kg | 1140   | 1140   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7439-96-5 |      |
| Molybdenum  | <1140   | ug/kg | 1140   | 1140   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7439-98-7 |      |
| Nickel  | 4460    | ug/kg | 1140   | 1140   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7440-02-0 |      |
| Potassium   | 191000  | ug/kg | 57200  | 5600   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7440-09-7 |      |
| Sodium  | 27700J  | ug/kg | 28600  | 15600  | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7440-23-5 |      |
| Strontium   | <5720   | ug/kg | 5720   | 5720   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7440-24-6 |      |
| Vanadium  | 10800   | ug/kg | 1140   | 1140   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7440-62-2 |      |
| Zinc  | 33700   | ug/kg | 1140   | 1140   | 1   | 06/26/20 14:44 | 06/29/20 12:32 | 7440-66-6 |      |
| <b>6020 MET ICPMS</b>                                     |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |        |        |     |                |                |           |      |
| Aluminum  | 5290000 | ug/kg | 125000 | 125000 | 100 | 06/24/20 09:22 | 06/30/20 01:40 | 7429-90-5 |      |
| Cadmium   | <250    | ug/kg | 250    | 250    | 1   | 06/24/20 09:22 | 06/25/20 16:17 | 7440-43-9 |      |
| Cobalt  | 2120    | ug/kg | 624    | 624    | 1   | 06/24/20 09:22 | 06/25/20 16:17 | 7440-48-4 |      |
| Selenium  | 319     | ug/kg | 250    | 250    | 1   | 06/24/20 09:22 | 06/25/20 16:17 | 7782-49-2 |      |
| Silver  | 203     | ug/kg | 125    | 125    | 1   | 06/24/20 09:22 | 06/25/20 16:17 | 7440-22-4 |      |
| Thallium  | <624    | ug/kg | 624    | 624    | 1   | 06/24/20 09:22 | 06/25/20 16:17 | 7440-28-0 |      |
| Titanium  | 218000  | ug/kg | 12500  | 3320   | 100 | 06/24/20 09:22 | 06/30/20 01:40 | 7440-32-6 | N2   |
| <b>7471 Mercury</b>                                       |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471  |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |        |        |     |                |                |           |      |
| Mercury   | <101    | ug/kg | 128    | 101    | 1   | 06/26/20 02:49 | 06/26/20 07:45 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                  |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546  |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |         |       |        |        |     |                |                |           |      |
| Acenaphthene  | <422    | ug/kg | 422    | 422    | 1   | 06/26/20 14:45 | 06/29/20 23:44 | 83-32-9   |      |
| Acenaphthylene  | <422    | ug/kg | 422    | 422    | 1   | 06/26/20 14:45 | 06/29/20 23:44 | 208-96-8  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-131 (2-3)**      **Lab ID: 50260268013**      Collected: 06/15/20 13:55      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                 |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |      |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |      |      |    |                |                |           |      |
| Anthracene   | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 120-12-7  |      |
| Benzo(a)anthracene                                       | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 56-55-3   |      |
| Benzo(a)pyrene   | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 50-32-8   |      |
| Benzo(b)fluoranthene                                     | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 205-99-2  |      |
| Benzo(g,h,i)perylene                                     | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 191-24-2  |      |
| Benzo(k)fluoranthene                                     | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 207-08-9  |      |
| 4-Bromophenylphenyl ether                                | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 101-55-3  |      |
| Butylbenzylphthalate                                     | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 85-68-7   |      |
| Carbazole  | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                  | <358    | ug/kg | 422  | 358  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                               | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                 | <205    | ug/kg | 422  | 205  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                             | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 108-60-1  |      |
| 2-Chloronaphthalene                                      | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 91-58-7   |      |
| 2-Chlorophenol   | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                               | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 7005-72-3 |      |
| Chrysene   | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                    | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 53-70-3   |      |
| Dibenzofuran   | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 132-64-9  |      |
| 2,4-Dichlorophenol                                       | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 120-83-2  |      |
| Diethylphthalate   | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 84-66-2   |      |
| 2,4-Dimethylphenol                                       | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 105-67-9  |      |
| Dimethylphthalate  | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 131-11-3  |      |
| Di-n-butylphthalate                                      | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                               | <1060   | ug/kg | 1060 | 1060 | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 534-52-1  |      |
| 2,4-Dinitrophenol  | <2050   | ug/kg | 2050 | 2050 | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 51-28-5   |      |
| 2,4-Dinitrotoluene                                       | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 121-14-2  |      |
| 2,6-Dinitrotoluene                                       | <113    | ug/kg | 422  | 113  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 606-20-2  |      |
| Di-n-octylphthalate                                      | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                    | <2050   | ug/kg | 2050 | 2050 | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate                               | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 117-81-7  |      |
| Fluoranthene   | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 206-44-0  |      |
| Fluorene   | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                 | <123    | ug/kg | 422  | 123  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 87-68-3   |      |
| Hexachlorobenzene  | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                | <1280   | ug/kg | 1280 | 1280 | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 77-47-4   |      |
| Hexachloroethane   | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                   | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 193-39-5  |      |
| Isophorone   | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 78-59-1   |      |
| 2-Methylnaphthalene                                      | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                 | <1280   | ug/kg | 1280 | 1280 | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                             | <1280   | ug/kg | 1280 | 1280 | 1  | 06/26/20 14:45 | 06/29/20 23:44 |           |      |
| Naphthalene  | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 91-20-3   |      |
| 2-Nitroaniline   | <422    | ug/kg | 422  | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 88-74-4   |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-131 (2-3)**      **Lab ID: 50260268013**      Collected: 06/15/20 13:55      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                    |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| 3-Nitroaniline  | <422    | ug/kg | 422    | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 99-09-2   |      |
| 4-Nitroaniline  | <422    | ug/kg | 422    | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 100-01-6  |      |
| Nitrobenzene  | <422    | ug/kg | 422    | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 98-95-3   |      |
| 2-Nitrophenol   | <422    | ug/kg | 422    | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 88-75-5   |      |
| 4-Nitrophenol   | <2050   | ug/kg | 2050   | 2050 | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 100-02-7  |      |
| N-Nitrosodimethylamine                                      | <422    | ug/kg | 422    | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                                  | <422    | ug/kg | 422    | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                      | <422    | ug/kg | 422    | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 86-30-6   |      |
| Pentachlorophenol   | <1880   | ug/kg | 2050   | 1880 | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 87-86-5   |      |
| Phenanthrene  | <422    | ug/kg | 422    | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 85-01-8   |      |
| Phenol  | <422    | ug/kg | 422    | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 108-95-2  |      |
| Pyrene  | <422    | ug/kg | 422    | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                      | <422    | ug/kg | 422    | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                       | <422    | ug/kg | 422    | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                       | <422    | ug/kg | 422    | 422  | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 88-06-2   |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)   | 73      | %     | 26-96  |      | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 4165-60-0 |      |
| Phenol-d5 (S)   | 75      | %     | 32-93  |      | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 4165-62-2 |      |
| 2-Fluorophenol (S)  | 76      | %     | 24-95  |      | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                    | 73      | %     | 20-109 |      | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 118-79-6  |      |
| 2-Fluorobiphenyl (S)  | 64      | %     | 36-91  |      | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 78      | %     | 27-117 |      | 1  | 06/26/20 14:45 | 06/29/20 23:44 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                              |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                                 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| Acetone   | <1480   | ug/kg | 1480   | 1480 | 1  |                | 06/24/20 10:16 | 67-64-1   |      |
| Acrylonitrile   | <148    | ug/kg | 148    | 148  | 1  |                | 06/24/20 10:16 | 107-13-1  |      |
| tert-Amylmethyl ether                                       | <371    | ug/kg | 371    | 371  | 1  |                | 06/24/20 10:16 | 994-05-8  | N2   |
| Benzene   | <74.2   | ug/kg | 74.2   | 74.2 | 1  |                | 06/24/20 10:16 | 71-43-2   |      |
| Bromobenzene  | <148    | ug/kg | 148    | 148  | 1  |                | 06/24/20 10:16 | 108-86-1  |      |
| Bromochloromethane  | <37.1   | ug/kg | 74.2   | 37.1 | 1  |                | 06/24/20 10:16 | 74-97-5   |      |
| Bromodichloromethane  | <148    | ug/kg | 148    | 148  | 1  |                | 06/24/20 10:16 | 75-27-4   |      |
| Bromoform   | <148    | ug/kg | 148    | 148  | 1  |                | 06/24/20 10:16 | 75-25-2   |      |
| Bromomethane  | <297    | ug/kg | 297    | 297  | 1  |                | 06/24/20 10:16 | 74-83-9   |      |
| 2-Butanone (MEK)  | <1110   | ug/kg | 1110   | 1110 | 1  |                | 06/24/20 10:16 | 78-93-3   |      |
| tert-Butyl Alcohol  | <3710   | ug/kg | 3710   | 3710 | 1  |                | 06/24/20 10:16 | 75-65-0   |      |
| n-Butylbenzene  | <74.2   | ug/kg | 74.2   | 74.2 | 1  |                | 06/24/20 10:16 | 104-51-8  |      |
| sec-Butylbenzene  | <74.2   | ug/kg | 74.2   | 74.2 | 1  |                | 06/24/20 10:16 | 135-98-8  |      |
| tert-Butylbenzene   | <74.2   | ug/kg | 74.2   | 74.2 | 1  |                | 06/24/20 10:16 | 98-06-6   |      |
| Carbon disulfide  | <371    | ug/kg | 371    | 371  | 1  |                | 06/24/20 10:16 | 75-15-0   |      |
| Carbon tetrachloride  | <74.2   | ug/kg | 74.2   | 74.2 | 1  |                | 06/24/20 10:16 | 56-23-5   |      |
| Chlorobenzene   | <74.2   | ug/kg | 74.2   | 74.2 | 1  |                | 06/24/20 10:16 | 108-90-7  |      |
| Chloroethane  | <371    | ug/kg | 371    | 371  | 1  |                | 06/24/20 10:16 | 75-00-3   |      |
| Chloroform  | <74.2   | ug/kg | 74.2   | 74.2 | 1  |                | 06/24/20 10:16 | 67-66-3   |      |

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

**Sample: MW-131 (2-3)**      **Lab ID: 50260268013**      Collected: 06/15/20 13:55      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Chloromethane                  | <371    | ug/kg  | 371  | 371  | 1  |          | 06/24/20 10:16 | 74-87-3    |      |
| Cyclohexane                    | <742    | ug/kg  | 742  | 742  | 1  |          | 06/24/20 10:16 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <74.2   | ug/kg  | 74.2 | 74.2 | 1  |          | 06/24/20 10:16 | 96-12-8    |      |
| Dibromochloromethane           | <148    | ug/kg  | 148  | 148  | 1  |          | 06/24/20 10:16 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <74.2   | ug/kg  | 74.2 | 74.2 | 1  |          | 06/24/20 10:16 | 106-93-4   |      |
| Dibromomethane                 | <371    | ug/kg  | 371  | 371  | 1  |          | 06/24/20 10:16 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <148    | ug/kg  | 148  | 148  | 1  |          | 06/24/20 10:16 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <148    | ug/kg  | 148  | 148  | 1  |          | 06/24/20 10:16 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <148    | ug/kg  | 148  | 148  | 1  |          | 06/24/20 10:16 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <148    | ug/kg  | 1480 | 148  | 1  |          | 06/24/20 10:16 | 110-57-6   |      |
| Dichlorodifluoromethane        | <371    | ug/kg  | 371  | 371  | 1  |          | 06/24/20 10:16 | 75-71-8    |      |
| 1,1-Dichloroethane             | <74.2   | ug/kg  | 74.2 | 74.2 | 1  |          | 06/24/20 10:16 | 75-34-3    |      |
| 1,2-Dichloroethane             | <74.2   | ug/kg  | 74.2 | 74.2 | 1  |          | 06/24/20 10:16 | 107-06-2   |      |
| 1,1-Dichloroethene             | <74.2   | ug/kg  | 74.2 | 74.2 | 1  |          | 06/24/20 10:16 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <74.2   | ug/kg  | 74.2 | 74.2 | 1  |          | 06/24/20 10:16 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <74.2   | ug/kg  | 74.2 | 74.2 | 1  |          | 06/24/20 10:16 | 156-60-5   |      |
| 1,2-Dichloropropane            | <74.2   | ug/kg  | 74.2 | 74.2 | 1  |          | 06/24/20 10:16 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <148    | ug/kg  | 148  | 148  | 1  |          | 06/24/20 10:16 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <148    | ug/kg  | 148  | 148  | 1  |          | 06/24/20 10:16 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <297    | ug/kg  | 297  | 297  | 1  |          | 06/24/20 10:16 | 60-29-7    |      |
| Diisopropyl ether              | <371    | ug/kg  | 371  | 371  | 1  |          | 06/24/20 10:16 | 108-20-3   | N2   |
| Ethylbenzene                   | <74.2   | ug/kg  | 74.2 | 74.2 | 1  |          | 06/24/20 10:16 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <371    | ug/kg  | 371  | 371  | 1  |          | 06/24/20 10:16 | 637-92-3   | N2   |
| Hexachloroethane               | <445    | ug/kg  | 445  | 445  | 1  |          | 06/24/20 10:16 | 67-72-1    | N2   |
| 2-Hexanone                     | <3710   | ug/kg  | 3710 | 3710 | 1  |          | 06/24/20 10:16 | 591-78-6   |      |
| Iodomethane                    | <148    | ug/kg  | 1480 | 148  | 1  |          | 06/24/20 10:16 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <371    | ug/kg  | 371  | 371  | 1  |          | 06/24/20 10:16 | 98-82-8    |      |
| p-Isopropyltoluene             | <37.1   | ug/kg  | 74.2 | 37.1 | 1  |          | 06/24/20 10:16 | 99-87-6    |      |
| Methylene Chloride             | <148    | ug/kg  | 148  | 148  | 1  |          | 06/24/20 10:16 | 75-09-2    |      |
| 2-Methylnaphthalene            | <490    | ug/kg  | 490  | 490  | 1  |          | 06/24/20 10:16 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)    | <3710   | ug/kg  | 3710 | 3710 | 1  |          | 06/24/20 10:16 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <371    | ug/kg  | 371  | 371  | 1  |          | 06/24/20 10:16 | 1634-04-4  |      |
| Naphthalene                    | <490    | ug/kg  | 490  | 490  | 1  |          | 06/24/20 10:16 | 91-20-3    |      |
| n-Propylbenzene                | <148    | ug/kg  | 148  | 148  | 1  |          | 06/24/20 10:16 | 103-65-1   |      |
| Styrene                        | <74.2   | ug/kg  | 74.2 | 74.2 | 1  |          | 06/24/20 10:16 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <148    | ug/kg  | 148  | 148  | 1  |          | 06/24/20 10:16 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane      | <74.2   | ug/kg  | 74.2 | 74.2 | 1  |          | 06/24/20 10:16 | 79-34-5    |      |
| Tetrachloroethene              | <74.2   | ug/kg  | 74.2 | 74.2 | 1  |          | 06/24/20 10:16 | 127-18-4   |      |
| Tetrahydrofuran                | <1480   | ug/kg  | 1480 | 1480 | 1  |          | 06/24/20 10:16 | 109-99-9   | N2   |
| Toluene                        | <148    | ug/kg  | 148  | 148  | 1  |          | 06/24/20 10:16 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene         | <371    | ug/kg  | 371  | 371  | 1  |          | 06/24/20 10:16 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene         | <371    | ug/kg  | 371  | 371  | 1  |          | 06/24/20 10:16 | 120-82-1   |      |
| 1,1,1-Trichloroethane          | <74.2   | ug/kg  | 74.2 | 74.2 | 1  |          | 06/24/20 10:16 | 71-55-6    |      |
| 1,1,2-Trichloroethane          | <74.2   | ug/kg  | 74.2 | 74.2 | 1  |          | 06/24/20 10:16 | 79-00-5    |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: MW-131 (2-3)**      **Lab ID: 50260268013**      Collected: 06/15/20 13:55      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Trichloroethene                         | <74.2   | ug/kg | 74.2   | 74.2 | 1  |          | 06/24/20 10:16 | 79-01-6     |      |
| Trichlorofluoromethane                  | <148    | ug/kg | 148    | 148  | 1  |          | 06/24/20 10:16 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <148    | ug/kg | 148    | 148  | 1  |          | 06/24/20 10:16 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <371    | ug/kg | 371    | 371  | 1  |          | 06/24/20 10:16 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <148    | ug/kg | 148    | 148  | 1  |          | 06/24/20 10:16 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <148    | ug/kg | 148    | 148  | 1  |          | 06/24/20 10:16 | 108-67-8    |      |
| Vinyl chloride                          | <59.4   | ug/kg | 59.4   | 59.4 | 1  |          | 06/24/20 10:16 | 75-01-4     |      |
| m&p-Xylene                              | <37.1   | ug/kg | 74.2   | 37.1 | 1  |          | 06/24/20 10:16 | 179601-23-1 |      |
| o-Xylene                                | <37.1   | ug/kg | 74.2   | 37.1 | 1  |          | 06/24/20 10:16 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 126     | %     | 62-137 |      | 1  |          | 06/24/20 10:16 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 122     | %     | 64-139 |      | 1  |          | 06/24/20 10:16 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 126     | %     | 60-142 |      | 1  |          | 06/24/20 10:16 | 460-00-4    |      |
| <b>Percent Moisture</b>                 |         |       |        |      |    |          |                |             |      |
| Analytical Method: SM 2540G             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Percent Moisture                        | 22.1    | %     | 0.10   | 0.10 | 1  |          | 06/23/20 14:21 |             |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: Dup. 1**      **Lab ID: 50260268014**      Collected: 06/15/20 12:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL    | MDL    | DF  | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|--------|-----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                     |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| n-Butanol  | <4770   | ug/kg | 4770   | 4770   | 1   |                | 06/22/20 18:21 | 71-36-3   |      |
| Ethanol  | <2710   | ug/kg | 2710   | 2710   | 1   |                | 06/22/20 18:21 | 64-17-5   |      |
| Methanol   | <4770   | ug/kg | 4770   | 4770   | 1   |                | 06/22/20 18:21 | 67-56-1   |      |
| <b>6010 MET ICP</b>  |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050  |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| Antimony   | <1050   | ug/kg | 1050   | 1050   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7440-36-0 |      |
| Arsenic  | <2100   | ug/kg | 2100   | 2100   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7440-38-2 |      |
| Barium   | 9360    | ug/kg | 1050   | 1050   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7440-39-3 |      |
| Beryllium  | <525    | ug/kg | 525    | 525    | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7440-41-7 |      |
| Boron  | <8400   | ug/kg | 8400   | 8400   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7440-42-8 |      |
| Calcium  | 8810000 | ug/kg | 52500  | 6970   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7440-70-2 |      |
| Chromium   | 5570    | ug/kg | 2100   | 2100   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7440-47-3 |      |
| Copper   | 3040    | ug/kg | 1050   | 1050   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7440-50-8 |      |
| Iron   | 4110000 | ug/kg | 26300  | 7980   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7439-89-6 |      |
| Lead   | <10500  | ug/kg | 10500  | 10500  | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7439-92-1 |      |
| Magnesium  | 1640000 | ug/kg | 26300  | 4200   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7439-95-4 |      |
| Manganese  | 75400   | ug/kg | 1050   | 1050   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7439-96-5 |      |
| Molybdenum   | <1050   | ug/kg | 1050   | 1050   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7439-98-7 |      |
| Nickel   | 4020    | ug/kg | 1050   | 1050   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7440-02-0 |      |
| Potassium  | 172000  | ug/kg | 52500  | 5140   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7440-09-7 |      |
| Sodium   | 27800   | ug/kg | 26300  | 14300  | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7440-23-5 |      |
| Strontium  | 9550    | ug/kg | 5250   | 5250   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7440-24-6 |      |
| Vanadium   | 7890    | ug/kg | 1050   | 1050   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7440-62-2 |      |
| Zinc   | 10300   | ug/kg | 1050   | 1050   | 1   | 06/26/20 14:44 | 06/29/20 12:34 | 7440-66-6 |      |
| <b>6020 MET ICPMS</b>  |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| Aluminum   | 3230000 | ug/kg | 106000 | 106000 | 100 | 06/24/20 09:22 | 06/30/20 01:45 | 7429-90-5 |      |
| Cadmium  | <213    | ug/kg | 213    | 213    | 1   | 06/24/20 09:22 | 06/25/20 16:30 | 7440-43-9 |      |
| Cobalt   | 1550    | ug/kg | 532    | 532    | 1   | 06/24/20 09:22 | 06/25/20 16:30 | 7440-48-4 |      |
| Selenium   | <213    | ug/kg | 213    | 213    | 1   | 06/24/20 09:22 | 06/25/20 16:30 | 7782-49-2 |      |
| Silver   | <106    | ug/kg | 106    | 106    | 1   | 06/24/20 09:22 | 06/25/20 16:30 | 7440-22-4 |      |
| Thallium   | <532    | ug/kg | 532    | 532    | 1   | 06/24/20 09:22 | 06/25/20 16:30 | 7440-28-0 |      |
| Titanium   | 211000  | ug/kg | 10600  | 2830   | 100 | 06/24/20 09:22 | 06/30/20 01:45 | 7440-32-6 | N2   |
| <b>7471 Mercury</b>  |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 7471      Preparation Method: EPA 7471  |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| Mercury  | <89.4   | ug/kg | 113    | 89.4   | 1   | 06/26/20 02:49 | 06/26/20 07:47 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                       |         |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 8270      Preparation Method: EPA 3546  |         |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |         |       |        |        |     |                |                |           |      |
| Acenaphthene   | <355    | ug/kg | 355    | 355    | 1   | 06/24/20 23:00 | 06/26/20 07:01 | 83-32-9   |      |
| Acenaphthylene   | <355    | ug/kg | 355    | 355    | 1   | 06/24/20 23:00 | 06/26/20 07:01 | 208-96-8  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: Dup. 1**      **Lab ID: 50260268014**      Collected: 06/15/20 12:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                 |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |      |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |      |      |    |                |                |           |      |
| Anthracene   | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 120-12-7  |      |
| Benzo(a)anthracene                                       | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 56-55-3   |      |
| Benzo(a)pyrene   | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 50-32-8   |      |
| Benzo(b)fluoranthene                                     | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 205-99-2  |      |
| Benzo(g,h,i)perylene                                     | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 191-24-2  |      |
| Benzo(k)fluoranthene                                     | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 207-08-9  |      |
| 4-Bromophenylphenyl ether                                | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 101-55-3  |      |
| Butylbenzylphthalate                                     | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 85-68-7   |      |
| Carbazole  | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                  | <301    | ug/kg | 355  | 301  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                               | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                 | <172    | ug/kg | 355  | 172  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                             | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 108-60-1  |      |
| 2-Chloronaphthalene                                      | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 91-58-7   |      |
| 2-Chlorophenol   | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                               | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 7005-72-3 |      |
| Chrysene   | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                    | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 53-70-3   |      |
| Dibenzofuran   | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 132-64-9  |      |
| 2,4-Dichlorophenol                                       | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 120-83-2  |      |
| Diethylphthalate   | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 84-66-2   |      |
| 2,4-Dimethylphenol                                       | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 105-67-9  |      |
| Dimethylphthalate  | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 131-11-3  |      |
| Di-n-butylphthalate                                      | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                               | <893    | ug/kg | 893  | 893  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 534-52-1  |      |
| 2,4-Dinitrophenol  | <1720   | ug/kg | 1720 | 1720 | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 51-28-5   |      |
| 2,4-Dinitrotoluene                                       | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 121-14-2  |      |
| 2,6-Dinitrotoluene                                       | <95.2   | ug/kg | 355  | 95.2 | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 606-20-2  |      |
| Di-n-octylphthalate                                      | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                    | <1720   | ug/kg | 1720 | 1720 | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate                               | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 117-81-7  |      |
| Fluoranthene   | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 206-44-0  | L1   |
| Fluorene   | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                 | <103    | ug/kg | 355  | 103  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 87-68-3   |      |
| Hexachlorobenzene  | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                | <1080   | ug/kg | 1080 | 1080 | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 77-47-4   |      |
| Hexachloroethane   | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                   | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 193-39-5  |      |
| Isophorone   | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 78-59-1   |      |
| 2-Methylnaphthalene                                      | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                 | <1080   | ug/kg | 1080 | 1080 | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                             | <1080   | ug/kg | 1080 | 1080 | 1  | 06/24/20 23:00 | 06/26/20 07:01 |           |      |
| Naphthalene  | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 91-20-3   |      |
| 2-Nitroaniline   | <355    | ug/kg | 355  | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 88-74-4   |      |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: Dup. 1**      **Lab ID: 50260268014**      Collected: 06/15/20 12:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                    |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| 3-Nitroaniline  | <355    | ug/kg | 355    | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 99-09-2   |      |
| 4-Nitroaniline  | <355    | ug/kg | 355    | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 100-01-6  |      |
| Nitrobenzene  | <355    | ug/kg | 355    | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 98-95-3   |      |
| 2-Nitrophenol   | <355    | ug/kg | 355    | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 88-75-5   |      |
| 4-Nitrophenol   | <1720   | ug/kg | 1720   | 1720 | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 100-02-7  |      |
| N-Nitrosodimethylamine                                      | <355    | ug/kg | 355    | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                                  | <355    | ug/kg | 355    | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                      | <355    | ug/kg | 355    | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 86-30-6   |      |
| Pentachlorophenol   | <1580   | ug/kg | 1720   | 1580 | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 87-86-5   |      |
| Phenanthrene  | <355    | ug/kg | 355    | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 85-01-8   |      |
| Phenol  | <355    | ug/kg | 355    | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 108-95-2  |      |
| Pyrene  | <355    | ug/kg | 355    | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                      | <355    | ug/kg | 355    | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                       | <355    | ug/kg | 355    | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                       | <355    | ug/kg | 355    | 355  | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 88-06-2   |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)   | 43      | %     | 26-96  |      | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 4165-60-0 |      |
| Phenol-d5 (S)   | 68      | %     | 32-93  |      | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 4165-62-2 |      |
| 2-Fluorophenol (S)  | 72      | %     | 24-95  |      | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                    | 76      | %     | 20-109 |      | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 118-79-6  |      |
| 2-Fluorobiphenyl (S)  | 75      | %     | 36-91  |      | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 93      | %     | 27-117 |      | 1  | 06/24/20 23:00 | 06/26/20 07:01 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                              |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                                 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| Acetone   | <1400   | ug/kg | 1400   | 1400 | 1  |                | 06/24/20 10:49 | 67-64-1   |      |
| Acrylonitrile   | <140    | ug/kg | 140    | 140  | 1  |                | 06/24/20 10:49 | 107-13-1  |      |
| tert-Amylmethyl ether                                       | <349    | ug/kg | 349    | 349  | 1  |                | 06/24/20 10:49 | 994-05-8  | N2   |
| Benzene   | <69.8   | ug/kg | 69.8   | 69.8 | 1  |                | 06/24/20 10:49 | 71-43-2   |      |
| Bromobenzene  | <140    | ug/kg | 140    | 140  | 1  |                | 06/24/20 10:49 | 108-86-1  |      |
| Bromochloromethane  | <34.9   | ug/kg | 69.8   | 34.9 | 1  |                | 06/24/20 10:49 | 74-97-5   |      |
| Bromodichloromethane  | <140    | ug/kg | 140    | 140  | 1  |                | 06/24/20 10:49 | 75-27-4   |      |
| Bromoform   | <140    | ug/kg | 140    | 140  | 1  |                | 06/24/20 10:49 | 75-25-2   |      |
| Bromomethane  | <279    | ug/kg | 279    | 279  | 1  |                | 06/24/20 10:49 | 74-83-9   |      |
| 2-Butanone (MEK)  | <1050   | ug/kg | 1050   | 1050 | 1  |                | 06/24/20 10:49 | 78-93-3   |      |
| tert-Butyl Alcohol  | <3490   | ug/kg | 3490   | 3490 | 1  |                | 06/24/20 10:49 | 75-65-0   |      |
| n-Butylbenzene  | <69.8   | ug/kg | 69.8   | 69.8 | 1  |                | 06/24/20 10:49 | 104-51-8  |      |
| sec-Butylbenzene  | <69.8   | ug/kg | 69.8   | 69.8 | 1  |                | 06/24/20 10:49 | 135-98-8  |      |
| tert-Butylbenzene   | <69.8   | ug/kg | 69.8   | 69.8 | 1  |                | 06/24/20 10:49 | 98-06-6   |      |
| Carbon disulfide  | <349    | ug/kg | 349    | 349  | 1  |                | 06/24/20 10:49 | 75-15-0   |      |
| Carbon tetrachloride  | <69.8   | ug/kg | 69.8   | 69.8 | 1  |                | 06/24/20 10:49 | 56-23-5   |      |
| Chlorobenzene   | <69.8   | ug/kg | 69.8   | 69.8 | 1  |                | 06/24/20 10:49 | 108-90-7  |      |
| Chloroethane  | <349    | ug/kg | 349    | 349  | 1  |                | 06/24/20 10:49 | 75-00-3   |      |
| Chloroform  | <69.8   | ug/kg | 69.8   | 69.8 | 1  |                | 06/24/20 10:49 | 67-66-3   |      |

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

**Sample: Dup. 1**      **Lab ID: 50260268014**      Collected: 06/15/20 12:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Chloromethane                  | <349    | ug/kg  | 349  | 349  | 1  |          | 06/24/20 10:49 | 74-87-3    |      |
| Cyclohexane                    | <698    | ug/kg  | 698  | 698  | 1  |          | 06/24/20 10:49 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <69.8   | ug/kg  | 69.8 | 69.8 | 1  |          | 06/24/20 10:49 | 96-12-8    |      |
| Dibromochloromethane           | <140    | ug/kg  | 140  | 140  | 1  |          | 06/24/20 10:49 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <69.8   | ug/kg  | 69.8 | 69.8 | 1  |          | 06/24/20 10:49 | 106-93-4   |      |
| Dibromomethane                 | <349    | ug/kg  | 349  | 349  | 1  |          | 06/24/20 10:49 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <140    | ug/kg  | 140  | 140  | 1  |          | 06/24/20 10:49 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <140    | ug/kg  | 140  | 140  | 1  |          | 06/24/20 10:49 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <140    | ug/kg  | 140  | 140  | 1  |          | 06/24/20 10:49 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <140    | ug/kg  | 1400 | 140  | 1  |          | 06/24/20 10:49 | 110-57-6   |      |
| Dichlorodifluoromethane        | <349    | ug/kg  | 349  | 349  | 1  |          | 06/24/20 10:49 | 75-71-8    |      |
| 1,1-Dichloroethane             | <69.8   | ug/kg  | 69.8 | 69.8 | 1  |          | 06/24/20 10:49 | 75-34-3    |      |
| 1,2-Dichloroethane             | <69.8   | ug/kg  | 69.8 | 69.8 | 1  |          | 06/24/20 10:49 | 107-06-2   |      |
| 1,1-Dichloroethene             | <69.8   | ug/kg  | 69.8 | 69.8 | 1  |          | 06/24/20 10:49 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <69.8   | ug/kg  | 69.8 | 69.8 | 1  |          | 06/24/20 10:49 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <69.8   | ug/kg  | 69.8 | 69.8 | 1  |          | 06/24/20 10:49 | 156-60-5   |      |
| 1,2-Dichloropropane            | <69.8   | ug/kg  | 69.8 | 69.8 | 1  |          | 06/24/20 10:49 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <140    | ug/kg  | 140  | 140  | 1  |          | 06/24/20 10:49 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <140    | ug/kg  | 140  | 140  | 1  |          | 06/24/20 10:49 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <279    | ug/kg  | 279  | 279  | 1  |          | 06/24/20 10:49 | 60-29-7    |      |
| Diisopropyl ether              | <349    | ug/kg  | 349  | 349  | 1  |          | 06/24/20 10:49 | 108-20-3   | N2   |
| Ethylbenzene                   | <69.8   | ug/kg  | 69.8 | 69.8 | 1  |          | 06/24/20 10:49 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <349    | ug/kg  | 349  | 349  | 1  |          | 06/24/20 10:49 | 637-92-3   | N2   |
| Hexachloroethane               | <419    | ug/kg  | 419  | 419  | 1  |          | 06/24/20 10:49 | 67-72-1    | N2   |
| 2-Hexanone                     | <3490   | ug/kg  | 3490 | 3490 | 1  |          | 06/24/20 10:49 | 591-78-6   |      |
| Iodomethane                    | <140    | ug/kg  | 1400 | 140  | 1  |          | 06/24/20 10:49 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <349    | ug/kg  | 349  | 349  | 1  |          | 06/24/20 10:49 | 98-82-8    |      |
| p-Isopropyltoluene             | <34.9   | ug/kg  | 69.8 | 34.9 | 1  |          | 06/24/20 10:49 | 99-87-6    |      |
| Methylene Chloride             | <140    | ug/kg  | 140  | 140  | 1  |          | 06/24/20 10:49 | 75-09-2    |      |
| 2-Methylnaphthalene            | <460    | ug/kg  | 460  | 460  | 1  |          | 06/24/20 10:49 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)    | <3490   | ug/kg  | 3490 | 3490 | 1  |          | 06/24/20 10:49 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <349    | ug/kg  | 349  | 349  | 1  |          | 06/24/20 10:49 | 1634-04-4  |      |
| Naphthalene                    | <460    | ug/kg  | 460  | 460  | 1  |          | 06/24/20 10:49 | 91-20-3    |      |
| n-Propylbenzene                | <140    | ug/kg  | 140  | 140  | 1  |          | 06/24/20 10:49 | 103-65-1   |      |
| Styrene                        | <69.8   | ug/kg  | 69.8 | 69.8 | 1  |          | 06/24/20 10:49 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <140    | ug/kg  | 140  | 140  | 1  |          | 06/24/20 10:49 | 630-20-6   |      |
| 1,1,1,2,2-Tetrachloroethane    | <69.8   | ug/kg  | 69.8 | 69.8 | 1  |          | 06/24/20 10:49 | 79-34-5    |      |
| Tetrachloroethene              | <69.8   | ug/kg  | 69.8 | 69.8 | 1  |          | 06/24/20 10:49 | 127-18-4   |      |
| Tetrahydrofuran                | <1400   | ug/kg  | 1400 | 1400 | 1  |          | 06/24/20 10:49 | 109-99-9   | N2   |
| Toluene                        | <140    | ug/kg  | 140  | 140  | 1  |          | 06/24/20 10:49 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene         | <349    | ug/kg  | 349  | 349  | 1  |          | 06/24/20 10:49 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene         | <349    | ug/kg  | 349  | 349  | 1  |          | 06/24/20 10:49 | 120-82-1   |      |
| 1,1,1-Trichloroethane          | <69.8   | ug/kg  | 69.8 | 69.8 | 1  |          | 06/24/20 10:49 | 71-55-6    |      |
| 1,1,2-Trichloroethane          | <69.8   | ug/kg  | 69.8 | 69.8 | 1  |          | 06/24/20 10:49 | 79-00-5    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: Dup. 1**      **Lab ID: 50260268014**      Collected: 06/15/20 12:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Trichloroethene                         | <69.8   | ug/kg | 69.8   | 69.8 | 1  |          | 06/24/20 10:49 | 79-01-6     |      |
| Trichlorofluoromethane                  | <140    | ug/kg | 140    | 140  | 1  |          | 06/24/20 10:49 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <140    | ug/kg | 140    | 140  | 1  |          | 06/24/20 10:49 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <349    | ug/kg | 349    | 349  | 1  |          | 06/24/20 10:49 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <140    | ug/kg | 140    | 140  | 1  |          | 06/24/20 10:49 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <140    | ug/kg | 140    | 140  | 1  |          | 06/24/20 10:49 | 108-67-8    |      |
| Vinyl chloride                          | <55.8   | ug/kg | 55.8   | 55.8 | 1  |          | 06/24/20 10:49 | 75-01-4     |      |
| m&p-Xylene                              | <34.9   | ug/kg | 69.8   | 34.9 | 1  |          | 06/24/20 10:49 | 179601-23-1 |      |
| o-Xylene                                | <34.9   | ug/kg | 69.8   | 34.9 | 1  |          | 06/24/20 10:49 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 104     | %     | 62-137 |      | 1  |          | 06/24/20 10:49 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 101     | %     | 64-139 |      | 1  |          | 06/24/20 10:49 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 105     | %     | 60-142 |      | 1  |          | 06/24/20 10:49 | 460-00-4    |      |
| <b>Percent Moisture</b>                 |         |       |        |      |    |          |                |             |      |
| Analytical Method: SM 2540G             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Percent Moisture                        | 7.7     | %     | 0.10   | 0.10 | 1  |          | 06/23/20 14:21 |             |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: Dup. 2**      **Lab ID: 50260268015**      Collected: 06/16/20 12:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results  | Units | PQL    | MDL    | DF  | Prepared       | Analyzed       | CAS No.   | Qual |
|--|----------|-------|--------|--------|-----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in solids</b>                                |          |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol                     |          |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |        |     |                |                |           |      |
| n-Butanol  | <4940    | ug/kg | 4940   | 4940   | 1   |                | 06/22/20 18:31 | 71-36-3   |      |
| Ethanol  | <2810    | ug/kg | 2810   | 2810   | 1   |                | 06/22/20 18:31 | 64-17-5   |      |
| Methanol   | <4940    | ug/kg | 4940   | 4940   | 1   |                | 06/22/20 18:31 | 67-56-1   |      |
| <b>6010 MET ICP</b>  |          |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 6010      Preparation Method: EPA 3050  |          |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |        |     |                |                |           |      |
| Antimony   | <1060    | ug/kg | 1060   | 1060   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7440-36-0 |      |
| Arsenic  | <2120    | ug/kg | 2120   | 2120   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7440-38-2 |      |
| Barium   | 14900    | ug/kg | 1060   | 1060   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7440-39-3 |      |
| Beryllium  | <529     | ug/kg | 529    | 529    | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7440-41-7 |      |
| Boron  | <8470    | ug/kg | 8470   | 8470   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7440-42-8 |      |
| Calcium  | 10200000 | ug/kg | 52900  | 7020   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7440-70-2 |      |
| Chromium   | 6530     | ug/kg | 2120   | 2120   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7440-47-3 |      |
| Copper   | 5830     | ug/kg | 1060   | 1060   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7440-50-8 |      |
| Iron   | 4680000  | ug/kg | 26500  | 8050   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7439-89-6 |      |
| Lead   | 18400    | ug/kg | 10600  | 10600  | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7439-92-1 |      |
| Magnesium  | 2120000  | ug/kg | 26500  | 4230   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7439-95-4 |      |
| Manganese  | 64900    | ug/kg | 1060   | 1060   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7439-96-5 |      |
| Molybdenum   | <1060    | ug/kg | 1060   | 1060   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7439-98-7 |      |
| Nickel   | 4420     | ug/kg | 1060   | 1060   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7440-02-0 |      |
| Potassium  | 285000   | ug/kg | 52900  | 5180   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7440-09-7 |      |
| Sodium   | 46000    | ug/kg | 26500  | 14400  | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7440-23-5 |      |
| Strontium  | 15800    | ug/kg | 5290   | 5290   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7440-24-6 |      |
| Vanadium   | 10300    | ug/kg | 1060   | 1060   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7440-62-2 |      |
| Zinc   | 21400    | ug/kg | 1060   | 1060   | 1   | 06/26/20 14:44 | 06/29/20 12:36 | 7440-66-6 |      |
| <b>6020 MET ICPMS</b>  |          |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 3050B |          |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |        |     |                |                |           |      |
| Aluminum   | 4930000  | ug/kg | 108000 | 108000 | 100 | 06/24/20 09:22 | 06/30/20 01:50 | 7429-90-5 |      |
| Cadmium  | <216     | ug/kg | 216    | 216    | 1   | 06/24/20 09:22 | 06/25/20 16:39 | 7440-43-9 |      |
| Cobalt   | 1960     | ug/kg | 540    | 540    | 1   | 06/24/20 09:22 | 06/25/20 16:39 | 7440-48-4 |      |
| Selenium   | 239      | ug/kg | 216    | 216    | 1   | 06/24/20 09:22 | 06/25/20 16:39 | 7782-49-2 |      |
| Silver   | <108     | ug/kg | 108    | 108    | 1   | 06/24/20 09:22 | 06/25/20 16:39 | 7440-22-4 |      |
| Thallium   | <540     | ug/kg | 540    | 540    | 1   | 06/24/20 09:22 | 06/25/20 16:39 | 7440-28-0 |      |
| Titanium   | 212000   | ug/kg | 10800  | 2870   | 100 | 06/24/20 09:22 | 06/30/20 01:50 | 7440-32-6 | N2   |
| <b>7471 Mercury</b>  |          |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 7471      Preparation Method: EPA 7471  |          |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |        |     |                |                |           |      |
| Mercury  | <93.3    | ug/kg | 118    | 93.3   | 1   | 06/26/20 02:49 | 06/26/20 07:57 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                       |          |       |        |        |     |                |                |           |      |
| Analytical Method: EPA 8270      Preparation Method: EPA 3546  |          |       |        |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                        |          |       |        |        |     |                |                |           |      |
| Acenaphthene   | <370     | ug/kg | 370    | 370    | 1   | 06/24/20 23:00 | 06/26/20 07:18 | 83-32-9   |      |
| Acenaphthylene   | <370     | ug/kg | 370    | 370    | 1   | 06/24/20 23:00 | 06/26/20 07:18 | 208-96-8  |      |

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

**Sample: Dup. 2**      **Lab ID: 50260268015**      Collected: 06/16/20 12:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                    |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |      |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |      |      |    |                |                |           |      |
| Anthracene  | 407     | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 120-12-7  |      |
| Benzo(a)anthracene  | 1700    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 56-55-3   |      |
| Benzo(a)pyrene  | 1600    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 50-32-8   |      |
| Benzo(b)fluoranthene  | 2210    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | 894     | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 191-24-2  |      |
| Benzo(k)fluoranthene  | 1020    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 207-08-9  |      |
| 4-Bromophenylphenyl ether                                   | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 101-55-3  |      |
| Butylbenzylphthalate  | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 85-68-7   |      |
| Carbazole   | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                     | <314    | ug/kg | 370  | 314  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                                  | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                    | <180    | ug/kg | 370  | 180  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                                | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 108-60-1  |      |
| 2-Chloronaphthalene   | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 91-58-7   |      |
| 2-Chlorophenol  | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                                  | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 7005-72-3 |      |
| Chrysene  | 1750    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                       | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 53-70-3   |      |
| Dibenzofuran  | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 132-64-9  |      |
| 2,4-Dichlorophenol  | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 120-83-2  |      |
| Diethylphthalate  | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 84-66-2   |      |
| 2,4-Dimethylphenol  | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 105-67-9  |      |
| Dimethylphthalate   | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 131-11-3  |      |
| Di-n-butylphthalate   | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                                  | <931    | ug/kg | 931  | 931  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 534-52-1  |      |
| 2,4-Dinitrophenol   | <1800   | ug/kg | 1800 | 1800 | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 51-28-5   |      |
| 2,4-Dinitrotoluene  | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 121-14-2  |      |
| 2,6-Dinitrotoluene  | <99.3   | ug/kg | 370  | 99.3 | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 606-20-2  |      |
| Di-n-octylphthalate   | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                       | <1800   | ug/kg | 1800 | 1800 | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate                                  | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 117-81-7  |      |
| Fluoranthene  | 3640    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 206-44-0  | L1   |
| Fluorene  | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                    | <108    | ug/kg | 370  | 108  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 87-68-3   |      |
| Hexachlorobenzene   | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                   | <1120   | ug/kg | 1120 | 1120 | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 77-47-4   |      |
| Hexachloroethane  | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                      | 808     | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 193-39-5  |      |
| Isophorone  | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 78-59-1   |      |
| 2-Methylnaphthalene   | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                    | <1120   | ug/kg | 1120 | 1120 | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                                | <1120   | ug/kg | 1120 | 1120 | 1  | 06/24/20 23:00 | 06/26/20 07:18 |           |      |
| Naphthalene   | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 91-20-3   |      |
| 2-Nitroaniline  | <370    | ug/kg | 370  | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 88-74-4   |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: Dup. 2**      **Lab ID: 50260268015**      Collected: 06/16/20 12:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                    |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| 3-Nitroaniline  | <370    | ug/kg | 370    | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 99-09-2   |      |
| 4-Nitroaniline  | <370    | ug/kg | 370    | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 100-01-6  |      |
| Nitrobenzene  | <370    | ug/kg | 370    | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 98-95-3   |      |
| 2-Nitrophenol   | <370    | ug/kg | 370    | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 88-75-5   |      |
| 4-Nitrophenol   | <1800   | ug/kg | 1800   | 1800 | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 100-02-7  |      |
| N-Nitrosodimethylamine                                      | <370    | ug/kg | 370    | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                                  | <370    | ug/kg | 370    | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                      | <370    | ug/kg | 370    | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 86-30-6   |      |
| Pentachlorophenol   | <1650   | ug/kg | 1800   | 1650 | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 87-86-5   |      |
| Phenanthrene  | 1890    | ug/kg | 370    | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 85-01-8   |      |
| Phenol  | <370    | ug/kg | 370    | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 108-95-2  |      |
| Pyrene  | 2880    | ug/kg | 370    | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                      | <370    | ug/kg | 370    | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                       | <370    | ug/kg | 370    | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                       | <370    | ug/kg | 370    | 370  | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 88-06-2   |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)   | 41      | %     | 26-96  |      | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 4165-60-0 |      |
| Phenol-d5 (S)   | 78      | %     | 32-93  |      | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 4165-62-2 |      |
| 2-Fluorophenol (S)  | 80      | %     | 24-95  |      | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                    | 62      | %     | 20-109 |      | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 118-79-6  |      |
| 2-Fluorobiphenyl (S)  | 72      | %     | 36-91  |      | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 85      | %     | 27-117 |      | 1  | 06/24/20 23:00 | 06/26/20 07:18 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                              |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                                 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| Acetone   | <1180   | ug/kg | 1180   | 1180 | 1  |                | 06/24/20 11:22 | 67-64-1   |      |
| Acrylonitrile   | <118    | ug/kg | 118    | 118  | 1  |                | 06/24/20 11:22 | 107-13-1  |      |
| tert-Amylmethyl ether                                       | <295    | ug/kg | 295    | 295  | 1  |                | 06/24/20 11:22 | 994-05-8  | N2   |
| Benzene   | <59.0   | ug/kg | 59.0   | 59.0 | 1  |                | 06/24/20 11:22 | 71-43-2   |      |
| Bromobenzene  | <118    | ug/kg | 118    | 118  | 1  |                | 06/24/20 11:22 | 108-86-1  |      |
| Bromochloromethane  | <29.5   | ug/kg | 59.0   | 29.5 | 1  |                | 06/24/20 11:22 | 74-97-5   |      |
| Bromodichloromethane  | <118    | ug/kg | 118    | 118  | 1  |                | 06/24/20 11:22 | 75-27-4   |      |
| Bromoform   | <118    | ug/kg | 118    | 118  | 1  |                | 06/24/20 11:22 | 75-25-2   |      |
| Bromomethane  | <236    | ug/kg | 236    | 236  | 1  |                | 06/24/20 11:22 | 74-83-9   |      |
| 2-Butanone (MEK)  | <884    | ug/kg | 884    | 884  | 1  |                | 06/24/20 11:22 | 78-93-3   |      |
| tert-Butyl Alcohol  | <2950   | ug/kg | 2950   | 2950 | 1  |                | 06/24/20 11:22 | 75-65-0   |      |
| n-Butylbenzene  | <59.0   | ug/kg | 59.0   | 59.0 | 1  |                | 06/24/20 11:22 | 104-51-8  |      |
| sec-Butylbenzene  | <59.0   | ug/kg | 59.0   | 59.0 | 1  |                | 06/24/20 11:22 | 135-98-8  |      |
| tert-Butylbenzene   | <59.0   | ug/kg | 59.0   | 59.0 | 1  |                | 06/24/20 11:22 | 98-06-6   |      |
| Carbon disulfide  | <295    | ug/kg | 295    | 295  | 1  |                | 06/24/20 11:22 | 75-15-0   |      |
| Carbon tetrachloride  | <59.0   | ug/kg | 59.0   | 59.0 | 1  |                | 06/24/20 11:22 | 56-23-5   |      |
| Chlorobenzene   | <59.0   | ug/kg | 59.0   | 59.0 | 1  |                | 06/24/20 11:22 | 108-90-7  |      |
| Chloroethane  | <295    | ug/kg | 295    | 295  | 1  |                | 06/24/20 11:22 | 75-00-3   |      |
| Chloroform  | <59.0   | ug/kg | 59.0   | 59.0 | 1  |                | 06/24/20 11:22 | 67-66-3   |      |

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

**Sample: Dup. 2**      **Lab ID: 50260268015**      Collected: 06/16/20 12:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Chloromethane                  | <295    | ug/kg  | 295  | 295  | 1  |          | 06/24/20 11:22 | 74-87-3    |      |
| Cyclohexane                    | <590    | ug/kg  | 590  | 590  | 1  |          | 06/24/20 11:22 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <59.0   | ug/kg  | 59.0 | 59.0 | 1  |          | 06/24/20 11:22 | 96-12-8    |      |
| Dibromochloromethane           | <118    | ug/kg  | 118  | 118  | 1  |          | 06/24/20 11:22 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <59.0   | ug/kg  | 59.0 | 59.0 | 1  |          | 06/24/20 11:22 | 106-93-4   |      |
| Dibromomethane                 | <295    | ug/kg  | 295  | 295  | 1  |          | 06/24/20 11:22 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <118    | ug/kg  | 118  | 118  | 1  |          | 06/24/20 11:22 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <118    | ug/kg  | 118  | 118  | 1  |          | 06/24/20 11:22 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <118    | ug/kg  | 118  | 118  | 1  |          | 06/24/20 11:22 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <118    | ug/kg  | 1180 | 118  | 1  |          | 06/24/20 11:22 | 110-57-6   |      |
| Dichlorodifluoromethane        | <295    | ug/kg  | 295  | 295  | 1  |          | 06/24/20 11:22 | 75-71-8    |      |
| 1,1-Dichloroethane             | <59.0   | ug/kg  | 59.0 | 59.0 | 1  |          | 06/24/20 11:22 | 75-34-3    |      |
| 1,2-Dichloroethane             | <59.0   | ug/kg  | 59.0 | 59.0 | 1  |          | 06/24/20 11:22 | 107-06-2   |      |
| 1,1-Dichloroethene             | <59.0   | ug/kg  | 59.0 | 59.0 | 1  |          | 06/24/20 11:22 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <59.0   | ug/kg  | 59.0 | 59.0 | 1  |          | 06/24/20 11:22 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <59.0   | ug/kg  | 59.0 | 59.0 | 1  |          | 06/24/20 11:22 | 156-60-5   |      |
| 1,2-Dichloropropane            | <59.0   | ug/kg  | 59.0 | 59.0 | 1  |          | 06/24/20 11:22 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <118    | ug/kg  | 118  | 118  | 1  |          | 06/24/20 11:22 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <118    | ug/kg  | 118  | 118  | 1  |          | 06/24/20 11:22 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <236    | ug/kg  | 236  | 236  | 1  |          | 06/24/20 11:22 | 60-29-7    |      |
| Diisopropyl ether              | <295    | ug/kg  | 295  | 295  | 1  |          | 06/24/20 11:22 | 108-20-3   | N2   |
| Ethylbenzene                   | <59.0   | ug/kg  | 59.0 | 59.0 | 1  |          | 06/24/20 11:22 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <295    | ug/kg  | 295  | 295  | 1  |          | 06/24/20 11:22 | 637-92-3   | N2   |
| Hexachloroethane               | <354    | ug/kg  | 354  | 354  | 1  |          | 06/24/20 11:22 | 67-72-1    | N2   |
| 2-Hexanone                     | <2950   | ug/kg  | 2950 | 2950 | 1  |          | 06/24/20 11:22 | 591-78-6   |      |
| Iodomethane                    | <118    | ug/kg  | 1180 | 118  | 1  |          | 06/24/20 11:22 | 74-88-4    |      |
| Isopropylbenzene (Cumene)      | <295    | ug/kg  | 295  | 295  | 1  |          | 06/24/20 11:22 | 98-82-8    |      |
| p-Isopropyltoluene             | <29.5   | ug/kg  | 59.0 | 29.5 | 1  |          | 06/24/20 11:22 | 99-87-6    |      |
| Methylene Chloride             | <118    | ug/kg  | 118  | 118  | 1  |          | 06/24/20 11:22 | 75-09-2    |      |
| 2-Methylnaphthalene            | <389    | ug/kg  | 389  | 389  | 1  |          | 06/24/20 11:22 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)    | <2950   | ug/kg  | 2950 | 2950 | 1  |          | 06/24/20 11:22 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <295    | ug/kg  | 295  | 295  | 1  |          | 06/24/20 11:22 | 1634-04-4  |      |
| Naphthalene                    | <389    | ug/kg  | 389  | 389  | 1  |          | 06/24/20 11:22 | 91-20-3    |      |
| n-Propylbenzene                | <118    | ug/kg  | 118  | 118  | 1  |          | 06/24/20 11:22 | 103-65-1   |      |
| Styrene                        | <59.0   | ug/kg  | 59.0 | 59.0 | 1  |          | 06/24/20 11:22 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <118    | ug/kg  | 118  | 118  | 1  |          | 06/24/20 11:22 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane      | <59.0   | ug/kg  | 59.0 | 59.0 | 1  |          | 06/24/20 11:22 | 79-34-5    |      |
| Tetrachloroethene              | <59.0   | ug/kg  | 59.0 | 59.0 | 1  |          | 06/24/20 11:22 | 127-18-4   |      |
| Tetrahydrofuran                | <1180   | ug/kg  | 1180 | 1180 | 1  |          | 06/24/20 11:22 | 109-99-9   | N2   |
| Toluene                        | <118    | ug/kg  | 118  | 118  | 1  |          | 06/24/20 11:22 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene         | <295    | ug/kg  | 295  | 295  | 1  |          | 06/24/20 11:22 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene         | <295    | ug/kg  | 295  | 295  | 1  |          | 06/24/20 11:22 | 120-82-1   |      |
| 1,1,1-Trichloroethane          | <59.0   | ug/kg  | 59.0 | 59.0 | 1  |          | 06/24/20 11:22 | 71-55-6    |      |
| 1,1,2-Trichloroethane          | <59.0   | ug/kg  | 59.0 | 59.0 | 1  |          | 06/24/20 11:22 | 79-00-5    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: Dup. 2**      **Lab ID: 50260268015**      Collected: 06/16/20 12:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results     | Units  | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|-------------|--|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b> |             | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Trichloroethene                | <59.0       | ug/kg  | 59.0   | 59.0 | 1  |          | 06/24/20 11:22 | 79-01-6     |      |
| Trichlorofluoromethane         | <118        | ug/kg  | 118    | 118  | 1  |          | 06/24/20 11:22 | 75-69-4     |      |
| 1,2,3-Trichloropropane         | <118        | ug/kg  | 118    | 118  | 1  |          | 06/24/20 11:22 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene         | <295        | ug/kg  | 295    | 295  | 1  |          | 06/24/20 11:22 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene         | <118        | ug/kg  | 118    | 118  | 1  |          | 06/24/20 11:22 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | <118        | ug/kg  | 118    | 118  | 1  |          | 06/24/20 11:22 | 108-67-8    |      |
| Vinyl chloride                 | <47.2       | ug/kg  | 47.2   | 47.2 | 1  |          | 06/24/20 11:22 | 75-01-4     |      |
| m&p-Xylene                     | <29.5       | ug/kg  | 59.0   | 29.5 | 1  |          | 06/24/20 11:22 | 179601-23-1 |      |
| o-Xylene                       | <29.5       | ug/kg  | 59.0   | 29.5 | 1  |          | 06/24/20 11:22 | 95-47-6     |      |
| <b>Surrogates</b>              |             |  |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)       | 114         | %  | 62-137 |      | 1  |          | 06/24/20 11:22 | 1868-53-7   |      |
| Toluene-d8 (S)                 | 110         | %  | 64-139 |      | 1  |          | 06/24/20 11:22 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)       | 115         | %  | 60-142 |      | 1  |          | 06/24/20 11:22 | 460-00-4    |      |
| <b>Percent Moisture</b>        |             | Analytical Method: SM 2540G<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Percent Moisture               | <b>10.9</b> | %  | 0.10   | 0.10 | 1  |          | 06/23/20 14:21 |             |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

Sample: Trip Blank Lab ID: 50260268016 Collected: 06/15/20 14:29 Received: 06/18/20 09:25 Matrix: Solid

Results reported on a "wet-weight" basis

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Acetone                        | <1000   | ug/kg  | 1000 | 1000 | 1  |          | 06/24/20 11:55 | 67-64-1    |      |
| Acrylonitrile                  | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 11:55 | 107-13-1   |      |
| tert-Amyl methyl ether         | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 11:55 | 994-05-8   | N2   |
| Benzene                        | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 71-43-2    |      |
| Bromobenzene                   | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 11:55 | 108-86-1   |      |
| Bromochloromethane             | <25.0   | ug/kg  | 50.0 | 25.0 | 1  |          | 06/24/20 11:55 | 74-97-5    |      |
| Bromodichloromethane           | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 11:55 | 75-27-4    |      |
| Bromoform                      | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 11:55 | 75-25-2    |      |
| Bromomethane                   | <200    | ug/kg  | 200  | 200  | 1  |          | 06/24/20 11:55 | 74-83-9    |      |
| 2-Butanone (MEK)               | <750    | ug/kg  | 750  | 750  | 1  |          | 06/24/20 11:55 | 78-93-3    |      |
| tert-Butyl Alcohol             | <2500   | ug/kg  | 2500 | 2500 | 1  |          | 06/24/20 11:55 | 75-65-0    |      |
| n-Butylbenzene                 | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 104-51-8   |      |
| sec-Butylbenzene               | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 135-98-8   |      |
| tert-Butylbenzene              | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 98-06-6    |      |
| Carbon disulfide               | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 11:55 | 75-15-0    |      |
| Carbon tetrachloride           | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 56-23-5    |      |
| Chlorobenzene                  | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 108-90-7   |      |
| Chloroethane                   | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 11:55 | 75-00-3    |      |
| Chloroform                     | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 67-66-3    |      |
| Chloromethane                  | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 11:55 | 74-87-3    |      |
| Cyclohexane                    | <500    | ug/kg  | 500  | 500  | 1  |          | 06/24/20 11:55 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 96-12-8    |      |
| Dibromochloromethane           | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 11:55 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 106-93-4   |      |
| Dibromomethane                 | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 11:55 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 11:55 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 11:55 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 11:55 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <100    | ug/kg  | 1000 | 100  | 1  |          | 06/24/20 11:55 | 110-57-6   |      |
| Dichlorodifluoromethane        | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 11:55 | 75-71-8    |      |
| 1,1-Dichloroethane             | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 75-34-3    |      |
| 1,2-Dichloroethane             | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 107-06-2   |      |
| 1,1-Dichloroethene             | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 156-60-5   |      |
| 1,2-Dichloropropane            | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 11:55 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 11:55 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <200    | ug/kg  | 200  | 200  | 1  |          | 06/24/20 11:55 | 60-29-7    |      |
| Diisopropyl ether              | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 11:55 | 108-20-3   | N2   |
| Ethylbenzene                   | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 11:55 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 11:55 | 637-92-3   | N2   |
| Hexachloroethane               | <300    | ug/kg  | 300  | 300  | 1  |          | 06/24/20 11:55 | 67-72-1    | N2   |
| 2-Hexanone                     | <2500   | ug/kg  | 2500 | 2500 | 1  |          | 06/24/20 11:55 | 591-78-6   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: Trip Blank**      **Lab ID: 50260268016**      Collected: 06/15/20 14:29      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "wet-weight" basis*

| Parameters                     | Results | Units  | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|---------|--|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Iodomethane                    | <100    | ug/kg  | 1000   | 100  | 1  |          | 06/24/20 11:55 | 74-88-4     |      |
| Isopropylbenzene (Cumene)      | <250    | ug/kg  | 250    | 250  | 1  |          | 06/24/20 11:55 | 98-82-8     |      |
| p-Isopropyltoluene             | <25.0   | ug/kg  | 50.0   | 25.0 | 1  |          | 06/24/20 11:55 | 99-87-6     |      |
| Methylene Chloride             | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 11:55 | 75-09-2     |      |
| 2-Methylnaphthalene            | <330    | ug/kg  | 330    | 330  | 1  |          | 06/24/20 11:55 | 91-57-6     |      |
| 4-Methyl-2-pentanone (MIBK)    | <2500   | ug/kg  | 2500   | 2500 | 1  |          | 06/24/20 11:55 | 108-10-1    |      |
| Methyl-tert-butyl ether        | <250    | ug/kg  | 250    | 250  | 1  |          | 06/24/20 11:55 | 1634-04-4   |      |
| Naphthalene                    | <330    | ug/kg  | 330    | 330  | 1  |          | 06/24/20 11:55 | 91-20-3     |      |
| n-Propylbenzene                | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 11:55 | 103-65-1    |      |
| Styrene                        | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/24/20 11:55 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane      | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 11:55 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane      | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/24/20 11:55 | 79-34-5     |      |
| Tetrachloroethene              | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/24/20 11:55 | 127-18-4    |      |
| Tetrahydrofuran                | <1000   | ug/kg  | 1000   | 1000 | 1  |          | 06/24/20 11:55 | 109-99-9    | N2   |
| Toluene                        | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 11:55 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene         | <250    | ug/kg  | 250    | 250  | 1  |          | 06/24/20 11:55 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene         | <250    | ug/kg  | 250    | 250  | 1  |          | 06/24/20 11:55 | 120-82-1    |      |
| 1,1,1-Trichloroethane          | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/24/20 11:55 | 71-55-6     |      |
| 1,1,2-Trichloroethane          | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/24/20 11:55 | 79-00-5     |      |
| Trichloroethene                | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/24/20 11:55 | 79-01-6     |      |
| Trichlorofluoromethane         | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 11:55 | 75-69-4     |      |
| 1,2,3-Trichloropropane         | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 11:55 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene         | <250    | ug/kg  | 250    | 250  | 1  |          | 06/24/20 11:55 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene         | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 11:55 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 11:55 | 108-67-8    |      |
| Vinyl chloride                 | <40.0   | ug/kg  | 40.0   | 40.0 | 1  |          | 06/24/20 11:55 | 75-01-4     |      |
| m&p-Xylene                     | <25.0   | ug/kg  | 50.0   | 25.0 | 1  |          | 06/24/20 11:55 | 179601-23-1 |      |
| o-Xylene                       | <25.0   | ug/kg  | 50.0   | 25.0 | 1  |          | 06/24/20 11:55 | 95-47-6     |      |
| <b>Surrogates</b>              |         |  |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)       | 103     | %  | 62-137 |      | 1  |          | 06/24/20 11:55 | 1868-53-7   |      |
| Toluene-d8 (S)                 | 98      | %  | 64-139 |      | 1  |          | 06/24/20 11:55 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)       | 101     | %  | 60-142 |      | 1  |          | 06/24/20 11:55 | 460-00-4    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

**Sample: Trip Blank**      **Lab ID: 50260268017**      Collected: 06/15/20 14:30      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "wet-weight" basis*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Acetone                        | <1000   | ug/kg  | 1000 | 1000 | 1  |          | 06/24/20 12:29 | 67-64-1    |      |
| Acrylonitrile                  | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 12:29 | 107-13-1   |      |
| tert-Amyl methyl ether         | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 12:29 | 994-05-8   | N2   |
| Benzene                        | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 71-43-2    |      |
| Bromobenzene                   | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 12:29 | 108-86-1   |      |
| Bromochloromethane             | <25.0   | ug/kg  | 50.0 | 25.0 | 1  |          | 06/24/20 12:29 | 74-97-5    |      |
| Bromodichloromethane           | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 12:29 | 75-27-4    |      |
| Bromoform                      | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 12:29 | 75-25-2    |      |
| Bromomethane                   | <200    | ug/kg  | 200  | 200  | 1  |          | 06/24/20 12:29 | 74-83-9    |      |
| 2-Butanone (MEK)               | <750    | ug/kg  | 750  | 750  | 1  |          | 06/24/20 12:29 | 78-93-3    |      |
| tert-Butyl Alcohol             | <2500   | ug/kg  | 2500 | 2500 | 1  |          | 06/24/20 12:29 | 75-65-0    |      |
| n-Butylbenzene                 | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 104-51-8   |      |
| sec-Butylbenzene               | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 135-98-8   |      |
| tert-Butylbenzene              | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 98-06-6    |      |
| Carbon disulfide               | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 12:29 | 75-15-0    |      |
| Carbon tetrachloride           | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 56-23-5    |      |
| Chlorobenzene                  | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 108-90-7   |      |
| Chloroethane                   | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 12:29 | 75-00-3    |      |
| Chloroform                     | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 67-66-3    |      |
| Chloromethane                  | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 12:29 | 74-87-3    |      |
| Cyclohexane                    | <500    | ug/kg  | 500  | 500  | 1  |          | 06/24/20 12:29 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 96-12-8    |      |
| Dibromochloromethane           | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 12:29 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 106-93-4   |      |
| Dibromomethane                 | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 12:29 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 12:29 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 12:29 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 12:29 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <100    | ug/kg  | 1000 | 100  | 1  |          | 06/24/20 12:29 | 110-57-6   |      |
| Dichlorodifluoromethane        | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 12:29 | 75-71-8    |      |
| 1,1-Dichloroethane             | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 75-34-3    |      |
| 1,2-Dichloroethane             | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 107-06-2   |      |
| 1,1-Dichloroethene             | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 156-60-5   |      |
| 1,2-Dichloropropane            | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 12:29 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <100    | ug/kg  | 100  | 100  | 1  |          | 06/24/20 12:29 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <200    | ug/kg  | 200  | 200  | 1  |          | 06/24/20 12:29 | 60-29-7    |      |
| Diisopropyl ether              | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 12:29 | 108-20-3   | N2   |
| Ethylbenzene                   | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/24/20 12:29 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <250    | ug/kg  | 250  | 250  | 1  |          | 06/24/20 12:29 | 637-92-3   | N2   |
| Hexachloroethane               | <300    | ug/kg  | 300  | 300  | 1  |          | 06/24/20 12:29 | 67-72-1    | N2   |
| 2-Hexanone                     | <2500   | ug/kg  | 2500 | 2500 | 1  |          | 06/24/20 12:29 | 591-78-6   |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: Trip Blank**      **Lab ID: 50260268017**      Collected: 06/15/20 14:30      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "wet-weight" basis*

| Parameters                     | Results | Units  | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|---------|--|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Iodomethane                    | <100    | ug/kg  | 1000   | 100  | 1  |          | 06/24/20 12:29 | 74-88-4     |      |
| Isopropylbenzene (Cumene)      | <250    | ug/kg  | 250    | 250  | 1  |          | 06/24/20 12:29 | 98-82-8     |      |
| p-Isopropyltoluene             | <25.0   | ug/kg  | 50.0   | 25.0 | 1  |          | 06/24/20 12:29 | 99-87-6     |      |
| Methylene Chloride             | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 12:29 | 75-09-2     |      |
| 2-Methylnaphthalene            | <330    | ug/kg  | 330    | 330  | 1  |          | 06/24/20 12:29 | 91-57-6     |      |
| 4-Methyl-2-pentanone (MIBK)    | <2500   | ug/kg  | 2500   | 2500 | 1  |          | 06/24/20 12:29 | 108-10-1    |      |
| Methyl-tert-butyl ether        | <250    | ug/kg  | 250    | 250  | 1  |          | 06/24/20 12:29 | 1634-04-4   |      |
| Naphthalene                    | <330    | ug/kg  | 330    | 330  | 1  |          | 06/24/20 12:29 | 91-20-3     |      |
| n-Propylbenzene                | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 12:29 | 103-65-1    |      |
| Styrene                        | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/24/20 12:29 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane      | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 12:29 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane      | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/24/20 12:29 | 79-34-5     |      |
| Tetrachloroethene              | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/24/20 12:29 | 127-18-4    |      |
| Tetrahydrofuran                | <1000   | ug/kg  | 1000   | 1000 | 1  |          | 06/24/20 12:29 | 109-99-9    | N2   |
| Toluene                        | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 12:29 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene         | <250    | ug/kg  | 250    | 250  | 1  |          | 06/24/20 12:29 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene         | <250    | ug/kg  | 250    | 250  | 1  |          | 06/24/20 12:29 | 120-82-1    |      |
| 1,1,1-Trichloroethane          | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/24/20 12:29 | 71-55-6     |      |
| 1,1,2-Trichloroethane          | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/24/20 12:29 | 79-00-5     |      |
| Trichloroethene                | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/24/20 12:29 | 79-01-6     |      |
| Trichlorofluoromethane         | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 12:29 | 75-69-4     |      |
| 1,2,3-Trichloropropane         | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 12:29 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene         | <250    | ug/kg  | 250    | 250  | 1  |          | 06/24/20 12:29 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene         | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 12:29 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | <100    | ug/kg  | 100    | 100  | 1  |          | 06/24/20 12:29 | 108-67-8    |      |
| Vinyl chloride                 | <40.0   | ug/kg  | 40.0   | 40.0 | 1  |          | 06/24/20 12:29 | 75-01-4     |      |
| m&p-Xylene                     | <25.0   | ug/kg  | 50.0   | 25.0 | 1  |          | 06/24/20 12:29 | 179601-23-1 |      |
| o-Xylene                       | <25.0   | ug/kg  | 50.0   | 25.0 | 1  |          | 06/24/20 12:29 | 95-47-6     |      |
| <b>Surrogates</b>              |         |  |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)       | 102     | %  | 62-137 |      | 1  |          | 06/24/20 12:29 | 1868-53-7   |      |
| Toluene-d8 (S)                 | 101     | %  | 64-139 |      | 1  |          | 06/24/20 12:29 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)       | 104     | %  | 60-142 |      | 1  |          | 06/24/20 12:29 | 460-00-4    |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: Field Blank**      **Lab ID: 50260268018**      Collected: 06/15/20 12:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "wet-weight" basis*

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Acetone                        | <1000   | ug/kg  | 1000 | 1000 | 1  |          | 06/23/20 16:34 | 67-64-1    |      |
| Acrylonitrile                  | <100    | ug/kg  | 100  | 100  | 1  |          | 06/23/20 16:34 | 107-13-1   |      |
| tert-Amyl methyl ether         | <250    | ug/kg  | 250  | 250  | 1  |          | 06/23/20 16:34 | 994-05-8   | N2   |
| Benzene                        | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 71-43-2    |      |
| Bromobenzene                   | <100    | ug/kg  | 100  | 100  | 1  |          | 06/23/20 16:34 | 108-86-1   |      |
| Bromochloromethane             | <25.0   | ug/kg  | 50.0 | 25.0 | 1  |          | 06/23/20 16:34 | 74-97-5    |      |
| Bromodichloromethane           | <100    | ug/kg  | 100  | 100  | 1  |          | 06/23/20 16:34 | 75-27-4    |      |
| Bromoform                      | <100    | ug/kg  | 100  | 100  | 1  |          | 06/23/20 16:34 | 75-25-2    |      |
| Bromomethane                   | <200    | ug/kg  | 200  | 200  | 1  |          | 06/23/20 16:34 | 74-83-9    |      |
| 2-Butanone (MEK)               | <750    | ug/kg  | 750  | 750  | 1  |          | 06/23/20 16:34 | 78-93-3    |      |
| tert-Butyl Alcohol             | <2500   | ug/kg  | 2500 | 2500 | 1  |          | 06/23/20 16:34 | 75-65-0    |      |
| n-Butylbenzene                 | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 104-51-8   |      |
| sec-Butylbenzene               | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 135-98-8   |      |
| tert-Butylbenzene              | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 98-06-6    |      |
| Carbon disulfide               | <250    | ug/kg  | 250  | 250  | 1  |          | 06/23/20 16:34 | 75-15-0    |      |
| Carbon tetrachloride           | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 56-23-5    |      |
| Chlorobenzene                  | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 108-90-7   |      |
| Chloroethane                   | <250    | ug/kg  | 250  | 250  | 1  |          | 06/23/20 16:34 | 75-00-3    |      |
| Chloroform                     | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 67-66-3    |      |
| Chloromethane                  | <250    | ug/kg  | 250  | 250  | 1  |          | 06/23/20 16:34 | 74-87-3    |      |
| Cyclohexane                    | <500    | ug/kg  | 500  | 500  | 1  |          | 06/23/20 16:34 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 96-12-8    |      |
| Dibromochloromethane           | <100    | ug/kg  | 100  | 100  | 1  |          | 06/23/20 16:34 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 106-93-4   |      |
| Dibromomethane                 | <250    | ug/kg  | 250  | 250  | 1  |          | 06/23/20 16:34 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <100    | ug/kg  | 100  | 100  | 1  |          | 06/23/20 16:34 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <100    | ug/kg  | 100  | 100  | 1  |          | 06/23/20 16:34 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <100    | ug/kg  | 100  | 100  | 1  |          | 06/23/20 16:34 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <100    | ug/kg  | 1000 | 100  | 1  |          | 06/23/20 16:34 | 110-57-6   |      |
| Dichlorodifluoromethane        | <250    | ug/kg  | 250  | 250  | 1  |          | 06/23/20 16:34 | 75-71-8    |      |
| 1,1-Dichloroethane             | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 75-34-3    |      |
| 1,2-Dichloroethane             | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 107-06-2   |      |
| 1,1-Dichloroethene             | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 156-60-5   |      |
| 1,2-Dichloropropane            | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <100    | ug/kg  | 100  | 100  | 1  |          | 06/23/20 16:34 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <100    | ug/kg  | 100  | 100  | 1  |          | 06/23/20 16:34 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <200    | ug/kg  | 200  | 200  | 1  |          | 06/23/20 16:34 | 60-29-7    |      |
| Diisopropyl ether              | <250    | ug/kg  | 250  | 250  | 1  |          | 06/23/20 16:34 | 108-20-3   | N2   |
| Ethylbenzene                   | <50.0   | ug/kg  | 50.0 | 50.0 | 1  |          | 06/23/20 16:34 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <250    | ug/kg  | 250  | 250  | 1  |          | 06/23/20 16:34 | 637-92-3   | N2   |
| Hexachloroethane               | <300    | ug/kg  | 300  | 300  | 1  |          | 06/23/20 16:34 | 67-72-1    | N2   |
| 2-Hexanone                     | <2500   | ug/kg  | 2500 | 2500 | 1  |          | 06/23/20 16:34 | 591-78-6   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

**Sample: Field Blank**      **Lab ID: 50260268018**      Collected: 06/15/20 12:00      Received: 06/18/20 09:25      Matrix: Solid

*Results reported on a "wet-weight" basis*

| Parameters                     | Results | Units  | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|---------|--|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Iodomethane                    | <100    | ug/kg  | 1000   | 100  | 1  |          | 06/23/20 16:34 | 74-88-4     |      |
| Isopropylbenzene (Cumene)      | <250    | ug/kg  | 250    | 250  | 1  |          | 06/23/20 16:34 | 98-82-8     |      |
| p-Isopropyltoluene             | <25.0   | ug/kg  | 50.0   | 25.0 | 1  |          | 06/23/20 16:34 | 99-87-6     |      |
| Methylene Chloride             | <100    | ug/kg  | 100    | 100  | 1  |          | 06/23/20 16:34 | 75-09-2     |      |
| 2-Methylnaphthalene            | <330    | ug/kg  | 330    | 330  | 1  |          | 06/23/20 16:34 | 91-57-6     |      |
| 4-Methyl-2-pentanone (MIBK)    | <2500   | ug/kg  | 2500   | 2500 | 1  |          | 06/23/20 16:34 | 108-10-1    |      |
| Methyl-tert-butyl ether        | <250    | ug/kg  | 250    | 250  | 1  |          | 06/23/20 16:34 | 1634-04-4   |      |
| Naphthalene                    | <330    | ug/kg  | 330    | 330  | 1  |          | 06/23/20 16:34 | 91-20-3     |      |
| n-Propylbenzene                | <100    | ug/kg  | 100    | 100  | 1  |          | 06/23/20 16:34 | 103-65-1    |      |
| Styrene                        | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/23/20 16:34 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane      | <100    | ug/kg  | 100    | 100  | 1  |          | 06/23/20 16:34 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane      | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/23/20 16:34 | 79-34-5     |      |
| Tetrachloroethene              | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/23/20 16:34 | 127-18-4    |      |
| Tetrahydrofuran                | <1000   | ug/kg  | 1000   | 1000 | 1  |          | 06/23/20 16:34 | 109-99-9    | N2   |
| Toluene                        | <100    | ug/kg  | 100    | 100  | 1  |          | 06/23/20 16:34 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene         | <250    | ug/kg  | 250    | 250  | 1  |          | 06/23/20 16:34 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene         | <250    | ug/kg  | 250    | 250  | 1  |          | 06/23/20 16:34 | 120-82-1    |      |
| 1,1,1-Trichloroethane          | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/23/20 16:34 | 71-55-6     |      |
| 1,1,2-Trichloroethane          | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/23/20 16:34 | 79-00-5     |      |
| Trichloroethene                | <50.0   | ug/kg  | 50.0   | 50.0 | 1  |          | 06/23/20 16:34 | 79-01-6     |      |
| Trichlorofluoromethane         | <100    | ug/kg  | 100    | 100  | 1  |          | 06/23/20 16:34 | 75-69-4     |      |
| 1,2,3-Trichloropropane         | <100    | ug/kg  | 100    | 100  | 1  |          | 06/23/20 16:34 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene         | <250    | ug/kg  | 250    | 250  | 1  |          | 06/23/20 16:34 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene         | <100    | ug/kg  | 100    | 100  | 1  |          | 06/23/20 16:34 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | <100    | ug/kg  | 100    | 100  | 1  |          | 06/23/20 16:34 | 108-67-8    |      |
| Vinyl chloride                 | <40.0   | ug/kg  | 40.0   | 40.0 | 1  |          | 06/23/20 16:34 | 75-01-4     |      |
| m&p-Xylene                     | <25.0   | ug/kg  | 50.0   | 25.0 | 1  |          | 06/23/20 16:34 | 179601-23-1 |      |
| o-Xylene                       | <25.0   | ug/kg  | 50.0   | 25.0 | 1  |          | 06/23/20 16:34 | 95-47-6     |      |
| <b>Surrogates</b>              |         |  |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)       | 101     | %  | 62-137 |      | 1  |          | 06/23/20 16:34 | 1868-53-7   |      |
| Toluene-d8 (S)                 | 99      | %  | 64-139 |      | 1  |          | 06/23/20 16:34 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)       | 101     | %  | 60-142 |      | 1  |          | 06/23/20 16:34 | 460-00-4    |      |

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

|                  |                         |                       |   |
|------------------|-------------------------|-----------------------|---|
| QC Batch:        | 568440                  | Analysis Method:      | EPA 8015 Alcohol-Glycol                 |
| QC Batch Method: | EPA 8015 Alcohol-Glycol | Analysis Description: | EPA 8015 Modified                       |
|                  |                         | Laboratory:           | Pace Analytical Services - Indianapolis |

Associated Lab Samples: 50260268001, 50260268002, 50260268003, 50260268004, 50260268005, 50260268006, 50260268007, 50260268008, 50260268009, 50260268010, 50260268011, 50260268012, 50260268013, 50260268014, 50260268015

METHOD BLANK: 2622641 Matrix: Solid

Associated Lab Samples: 50260268001, 50260268002, 50260268003, 50260268004, 50260268005, 50260268006, 50260268007, 50260268008, 50260268009, 50260268010, 50260268011, 50260268012, 50260268013, 50260268014, 50260268015

| Parameter | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Ethanol   | ug/kg | <2500        | 2500            | 2500 | 06/22/20 12:25 |            |
| Methanol  | ug/kg | <4400        | 4400            | 4400 | 06/22/20 12:25 |            |
| n-Butanol | ug/kg | <4400        | 4400            | 4400 | 06/22/20 12:25 |            |

LABORATORY CONTROL SAMPLE: 2622642

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Ethanol   | ug/kg | 50000       | 60600      | 121       | 79-113       | L5         |
| Methanol  | ug/kg | 50000       | 49900      | 100       | 75-111       |            |
| n-Butanol | ug/kg | 50000       | 50400      | 101       | 80-115       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2622873 2622874

| Parameter | Units | 50260268001 Result | MS          |           | MSD         |            | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-----------|-------------|------------|----------|-----------|--------------|-----|---------|------|
|           |       |                    | Spike Conc. | MS Result | Spike Conc. | MSD Result |          |           |              |     |         |      |
| Ethanol   | ug/kg | <2750              | 54900       | 54900     | 57600       | 55400      | 105      | 101       | 46-120       | 4   | 20      |      |
| Methanol  | ug/kg | <4830              | 54900       | 54900     | 48000       | 45700      | 87       | 83        | 42-119       | 5   | 20      |      |
| n-Butanol | ug/kg | <4830              | 54900       | 54900     | 47600       | 46100      | 87       | 84        | 10-142       | 3   | 20      |      |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

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QC Batch: 569181 Analysis Method: EPA 7471  
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50260268001, 50260268002, 50260268003, 50260268004, 50260268005, 50260268006, 50260268007, 50260268008, 50260268009, 50260268010, 50260268011, 50260268012, 50260268013, 50260268014, 50260268015

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METHOD BLANK: 2625731 Matrix: Solid  
Associated Lab Samples: 50260268001, 50260268002, 50260268003, 50260268004, 50260268005, 50260268006, 50260268007, 50260268008, 50260268009, 50260268010, 50260268011, 50260268012, 50260268013, 50260268014, 50260268015

| Parameter | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Mercury   | ug/kg | <75.5        | 95.5            | 75.5 | 06/26/20 06:56 |            |

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LABORATORY CONTROL SAMPLE: 2625732

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury   | ug/kg | 493         | 530        | 107       | 80-120       |            |

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MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2625733 2625734

| Parameter | Units | 50260268002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Mercury   | ug/kg | <85.3              | 553            | 531             | 564       | 528        | 102      | 99        | 75-125       | 7   | 20      |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

|                  |          |                       |   |
|------------------|----------|-----------------------|---|
| QC Batch:        | 568327   | Analysis Method:      | EPA 6010                                |
| QC Batch Method: | EPA 3050 | Analysis Description: | 6010 MET                                |
|                  |          | Laboratory:           | Pace Analytical Services - Indianapolis |

Associated Lab Samples: 50260268001, 50260268002, 50260268003, 50260268004, 50260268005, 50260268006, 50260268007, 50260268008, 50260268009, 50260268010, 50260268011, 50260268012, 50260268013, 50260268014, 50260268015

METHOD BLANK: 2622338 Matrix: Solid  
Associated Lab Samples: 50260268001, 50260268002, 50260268003, 50260268004, 50260268005, 50260268006, 50260268007, 50260268008, 50260268009, 50260268010, 50260268011, 50260268012, 50260268013, 50260268014, 50260268015

| Parameter  | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|------------|-------|--------------|-----------------|-------|----------------|------------|
| Antimony   | ug/kg | <1000        | 1000            | 1000  | 06/29/20 11:44 |            |
| Arsenic    | ug/kg | <2000        | 2000            | 2000  | 06/29/20 11:44 |            |
| Barium     | ug/kg | <1000        | 1000            | 1000  | 06/29/20 11:44 |            |
| Beryllium  | ug/kg | <500         | 500             | 500   | 06/29/20 11:44 |            |
| Boron      | ug/kg | <8000        | 8000            | 8000  | 06/29/20 11:44 |            |
| Calcium    | ug/kg | <6630        | 50000           | 6630  | 06/29/20 11:44 |            |
| Chromium   | ug/kg | <2000        | 2000            | 2000  | 06/29/20 11:44 |            |
| Copper     | ug/kg | <1000        | 1000            | 1000  | 06/29/20 11:44 |            |
| Iron       | ug/kg | <7600        | 25000           | 7600  | 06/29/20 11:44 |            |
| Lead       | ug/kg | <10000       | 10000           | 10000 | 06/29/20 11:44 |            |
| Magnesium  | ug/kg | <4000        | 25000           | 4000  | 06/29/20 11:44 |            |
| Manganese  | ug/kg | <1000        | 1000            | 1000  | 06/29/20 11:44 |            |
| Molybdenum | ug/kg | <1000        | 1000            | 1000  | 06/29/20 11:44 |            |
| Nickel     | ug/kg | <1000        | 1000            | 1000  | 06/29/20 11:44 |            |
| Potassium  | ug/kg | <4890        | 50000           | 4890  | 06/29/20 11:44 |            |
| Sodium     | ug/kg | <13600       | 25000           | 13600 | 06/29/20 11:44 |            |
| Strontium  | ug/kg | <5000        | 5000            | 5000  | 06/29/20 11:44 |            |
| Vanadium   | ug/kg | <1000        | 1000            | 1000  | 06/29/20 11:44 |            |
| Zinc       | ug/kg | <1000        | 1000            | 1000  | 06/29/20 11:44 |            |

LABORATORY CONTROL SAMPLE: 2622339

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Antimony  | ug/kg | 50000       | 49700      | 99        | 80-120       |            |
| Arsenic   | ug/kg | 50000       | 50300      | 101       | 80-120       |            |
| Barium    | ug/kg | 50000       | 48800      | 98        | 80-120       |            |
| Beryllium | ug/kg | 50000       | 51000      | 102       | 80-120       |            |
| Boron     | ug/kg | 50000       | 49600      | 99        | 80-120       |            |
| Calcium   | ug/kg | 500000      | 499000     | 100       | 80-120       |            |
| Chromium  | ug/kg | 50000       | 49800      | 100       | 80-120       |            |
| Copper    | ug/kg | 50000       | 47500      | 95        | 80-120       |            |
| Iron      | ug/kg | 500000      | 492000     | 98        | 80-120       |            |
| Lead      | ug/kg | 50000       | 49500      | 99        | 80-120       |            |
| Magnesium | ug/kg | 500000      | 492000     | 98        | 80-120       |            |
| Manganese | ug/kg | 50000       | 50000      | 100       | 80-120       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

LABORATORY CONTROL SAMPLE: 2622339

| Parameter  | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Molybdenum | ug/kg | 50000       | 52100      | 104       | 80-120       |            |
| Nickel     | ug/kg | 50000       | 50100      | 100       | 80-120       |            |
| Potassium  | ug/kg | 500000      | 489000     | 98        | 80-120       |            |
| Sodium     | ug/kg | 500000      | 495000     | 99        | 80-120       |            |
| Strontium  | ug/kg | 50000       | 49700      | 99        | 80-120       |            |
| Vanadium   | ug/kg | 50000       | 49300      | 99        | 80-120       |            |
| Zinc       | ug/kg | 50000       | 50600      | 101       | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2622340 2622341

| Parameter  | Units | MS                 |             | MSD         |           | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |            |
|------------|-------|--------------------|-------------|-------------|-----------|----------|-----------|--------------|--------|---------|------|------------|
|            |       | 50260268003 Result | Spike Conc. | Spike Conc. | MS Result |          |           |              |        |         |      | MSD Result |
| Antimony   | ug/kg | <957               | 45300       | 46300       | 25100     | 26600    | 56        | 58           | 75-125 | 6       | 20   | M3         |
| Arsenic    | ug/kg | <1910              | 45300       | 46300       | 43400     | 44700    | 94        | 94           | 75-125 | 3       | 20   |            |
| Barium     | ug/kg | 8540               | 45300       | 46300       | 50100     | 51600    | 92        | 93           | 75-125 | 3       | 20   |            |
| Beryllium  | ug/kg | <478               | 45300       | 46300       | 42700     | 44200    | 94        | 95           | 75-125 | 3       | 20   |            |
| Boron      | ug/kg | <7650              | 45300       | 46300       | 43500     | 45300    | 94        | 95           | 75-125 | 4       | 20   |            |
| Calcium    | ug/kg | 628000             | 453000      | 463000      | 1260000   | 1270000  | 141       | 139          | 75-125 | 1       | 20   | M3         |
| Chromium   | ug/kg | 5880               | 45300       | 46300       | 47300     | 48700    | 92        | 92           | 75-125 | 3       | 20   |            |
| Copper     | ug/kg | 1580               | 45300       | 46300       | 41100     | 42600    | 87        | 88           | 75-125 | 4       | 20   |            |
| Iron       | ug/kg | 3940000            | 453000      | 463000      | 4610000   | 4510000  | 147       | 124          | 75-125 | 2       | 20   | P6         |
| Lead       | ug/kg | <9570              | 45300       | 46300       | 42700     | 44100    | 90        | 91           | 75-125 | 3       | 20   |            |
| Magnesium  | ug/kg | 739000             | 453000      | 463000      | 1290000   | 1260000  | 121       | 112          | 75-125 | 2       | 20   |            |
| Manganese  | ug/kg | 27300              | 45300       | 46300       | 74600     | 74200    | 105       | 101          | 75-125 | 1       | 20   |            |
| Molybdenum | ug/kg | <957               | 45300       | 46300       | 42400     | 44100    | 93        | 95           | 75-125 | 4       | 20   |            |
| Nickel     | ug/kg | 3880               | 45300       | 46300       | 45100     | 46500    | 91        | 92           | 75-125 | 3       | 20   |            |
| Potassium  | ug/kg | 148000             | 453000      | 463000      | 649000    | 658000   | 111       | 110          | 75-125 | 1       | 20   |            |
| Sodium     | ug/kg | 23200J             | 453000      | 463000      | 453000    | 464000   | 95        | 95           | 75-125 | 2       | 20   |            |
| Strontium  | ug/kg | <4780              | 45300       | 46300       | 46500     | 48000    | 96        | 97           | 75-125 | 3       | 20   |            |
| Vanadium   | ug/kg | 8010               | 45300       | 46300       | 50800     | 52400    | 95        | 96           | 75-125 | 3       | 20   |            |
| Zinc       | ug/kg | 8190               | 45300       | 46300       | 50500     | 51800    | 94        | 94           | 75-125 | 2       | 20   |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

QC Batch: 568592 Analysis Method: EPA 6020  
QC Batch Method: EPA 3050B Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50260268001, 50260268002, 50260268003, 50260268004, 50260268005, 50260268006, 50260268007, 50260268008, 50260268009, 50260268010, 50260268011, 50260268012, 50260268013, 50260268014, 50260268015

METHOD BLANK: 2623199 Matrix: Solid  
Associated Lab Samples: 50260268001, 50260268002, 50260268003, 50260268004, 50260268005, 50260268006, 50260268007, 50260268008, 50260268009, 50260268010, 50260268011, 50260268012, 50260268013, 50260268014, 50260268015

| Parameter | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Aluminum  | ug/kg | <970         | 970             | 970  | 06/25/20 13:18 |            |
| Cadmium   | ug/kg | <194         | 194             | 194  | 06/25/20 13:18 |            |
| Cobalt    | ug/kg | <485         | 485             | 485  | 06/25/20 13:18 |            |
| Selenium  | ug/kg | <194         | 194             | 194  | 06/25/20 13:18 |            |
| Silver    | ug/kg | <97.0        | 97.0            | 97.0 | 06/25/20 13:18 |            |
| Thallium  | ug/kg | <485         | 485             | 485  | 06/25/20 13:18 |            |
| Titanium  | ug/kg | <25.8        | 97.0            | 25.8 | 06/25/20 13:18 | N2         |

LABORATORY CONTROL SAMPLE: 2623200

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Aluminum  | ug/kg | 38000       | 38700      | 102       | 80-120       |            |
| Cadmium   | ug/kg | 3800        | 3510       | 92        | 80-120       |            |
| Cobalt    | ug/kg | 3800        | 3870       | 102       | 80-120       |            |
| Selenium  | ug/kg | 3800        | 3430       | 90        | 80-120       |            |
| Silver    | ug/kg | 3800        | 3760       | 99        | 80-120       |            |
| Thallium  | ug/kg | 3800        | 3860       | 102       | 80-120       |            |
| Titanium  | ug/kg | 3800        | 3910       | 103       | 80-120       | N2         |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2623201 2623205

| Parameter | Units | MS                 |             | MSD         |           | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |            |
|-----------|-------|--------------------|-------------|-------------|-----------|----------|-----------|--------------|--------|---------|------|------------|
|           |       | 50260268001 Result | Spike Conc. | Spike Conc. | MS Result |          |           |              |        |         |      | MSD Result |
| Aluminum  | ug/kg | 4330000            | 43000       | 41000       | 4780000   | 5450000  | 1060      | 2740         | 75-125 | 13      | 20   | P6         |
| Cadmium   | ug/kg | <218               | 4300        | 4100        | 4200      | 4010     | 94        | 94           | 75-125 | 5       | 20   |            |
| Cobalt    | ug/kg | 1400               | 4300        | 4100        | 5290      | 5080     | 91        | 90           | 75-125 | 4       | 20   |            |
| Selenium  | ug/kg | 262                | 4300        | 4100        | 3390      | 3280     | 73        | 74           | 75-125 | 3       | 20   | M3         |
| Silver    | ug/kg | 157                | 4300        | 4100        | 4190      | 3910     | 94        | 91           | 75-125 | 7       | 20   |            |
| Thallium  | ug/kg | <544               | 4300        | 4100        | 4420      | 4210     | 102       | 102          | 75-125 | 5       | 20   |            |
| Titanium  | ug/kg | 237000             | 4300        | 4100        | 256000    | 280000   | 438       | 1060         | 75-125 | 9       | 20   | N2,P6      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

QC Batch: 568677 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035 Volatile Organics  
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50260268018

METHOD BLANK: 2623525 Matrix: Solid

Associated Lab Samples: 50260268018

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| 1,1,1-Trichloroethane       | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| 1,1,2,2-Tetrachloroethane   | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| 1,1,2-Trichloroethane       | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| 1,1-Dichloroethane          | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| 1,1-Dichloroethene          | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| 1,2,3-Trichlorobenzene      | ug/kg | <250         | 250             | 250  | 06/23/20 15:27 |            |
| 1,2,3-Trichloropropane      | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| 1,2,3-Trimethylbenzene      | ug/kg | <250         | 250             | 250  | 06/23/20 15:27 | N2         |
| 1,2,4-Trichlorobenzene      | ug/kg | <250         | 250             | 250  | 06/23/20 15:27 |            |
| 1,2,4-Trimethylbenzene      | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| 1,2-Dibromo-3-chloropropane | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| 1,2-Dichlorobenzene         | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| 1,2-Dichloroethane          | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| 1,2-Dichloropropane         | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| 1,3,5-Trimethylbenzene      | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| 1,3-Dichlorobenzene         | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| 1,4-Dichlorobenzene         | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| 2-Butanone (MEK)            | ug/kg | <750         | 750             | 750  | 06/23/20 15:27 |            |
| 2-Hexanone                  | ug/kg | <2500        | 2500            | 2500 | 06/23/20 15:27 |            |
| 2-Methylnaphthalene         | ug/kg | <330         | 330             | 330  | 06/23/20 15:27 |            |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | <2500        | 2500            | 2500 | 06/23/20 15:27 |            |
| Acetone                     | ug/kg | <1000        | 1000            | 1000 | 06/23/20 15:27 |            |
| Acrylonitrile               | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| Benzene                     | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| Bromobenzene                | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| Bromochloromethane          | ug/kg | <25.0        | 50.0            | 25.0 | 06/23/20 15:27 |            |
| Bromodichloromethane        | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| Bromoform                   | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| Bromomethane                | ug/kg | <200         | 200             | 200  | 06/23/20 15:27 |            |
| Carbon disulfide            | ug/kg | <250         | 250             | 250  | 06/23/20 15:27 |            |
| Carbon tetrachloride        | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| Chlorobenzene               | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| Chloroethane                | ug/kg | <250         | 250             | 250  | 06/23/20 15:27 |            |
| Chloroform                  | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| Chloromethane               | ug/kg | <250         | 250             | 250  | 06/23/20 15:27 |            |
| cis-1,2-Dichloroethene      | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| cis-1,3-Dichloropropene     | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| Cyclohexane                 | ug/kg | <500         | 500             | 500  | 06/23/20 15:27 | N2         |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

METHOD BLANK: 2623525 Matrix: Solid  
Associated Lab Samples: 50260268018

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| Dibromochloromethane        | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| Dibromomethane              | ug/kg | <250         | 250             | 250  | 06/23/20 15:27 |            |
| Dichlorodifluoromethane     | ug/kg | <250         | 250             | 250  | 06/23/20 15:27 |            |
| Diethyl ether (Ethyl ether) | ug/kg | <200         | 200             | 200  | 06/23/20 15:27 |            |
| Diisopropyl ether           | ug/kg | <250         | 250             | 250  | 06/23/20 15:27 | N2         |
| Ethyl-tert-butyl ether      | ug/kg | <250         | 250             | 250  | 06/23/20 15:27 | N2         |
| Ethylbenzene                | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| Hexachloroethane            | ug/kg | <300         | 300             | 300  | 06/23/20 15:27 | N2         |
| Iodomethane                 | ug/kg | <100         | 1000            | 100  | 06/23/20 15:27 |            |
| Isopropylbenzene (Cumene)   | ug/kg | <250         | 250             | 250  | 06/23/20 15:27 |            |
| m&p-Xylene                  | ug/kg | <25.0        | 50.0            | 25.0 | 06/23/20 15:27 |            |
| Methyl-tert-butyl ether     | ug/kg | <250         | 250             | 250  | 06/23/20 15:27 |            |
| Methylene Chloride          | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| n-Butylbenzene              | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| n-Propylbenzene             | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| Naphthalene                 | ug/kg | <330         | 330             | 330  | 06/23/20 15:27 |            |
| o-Xylene                    | ug/kg | <25.0        | 50.0            | 25.0 | 06/23/20 15:27 |            |
| p-Isopropyltoluene          | ug/kg | <25.0        | 50.0            | 25.0 | 06/23/20 15:27 |            |
| sec-Butylbenzene            | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| Styrene                     | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| tert-Amylmethyl ether       | ug/kg | <250         | 250             | 250  | 06/23/20 15:27 | N2         |
| tert-Butyl Alcohol          | ug/kg | <2500        | 2500            | 2500 | 06/23/20 15:27 |            |
| tert-Butylbenzene           | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| Tetrachloroethane           | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| Tetrahydrofuran             | ug/kg | <1000        | 1000            | 1000 | 06/23/20 15:27 | N2         |
| Toluene                     | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| trans-1,2-Dichloroethene    | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| trans-1,3-Dichloropropene   | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| trans-1,4-Dichloro-2-butene | ug/kg | <100         | 1000            | 100  | 06/23/20 15:27 |            |
| Trichloroethene             | ug/kg | <50.0        | 50.0            | 50.0 | 06/23/20 15:27 |            |
| Trichlorofluoromethane      | ug/kg | <100         | 100             | 100  | 06/23/20 15:27 |            |
| Vinyl chloride              | ug/kg | <40.0        | 40.0            | 40.0 | 06/23/20 15:27 |            |
| 4-Bromofluorobenzene (S)    | %     | 99           | 60-142          |      | 06/23/20 15:27 |            |
| Dibromofluoromethane (S)    | %     | 104          | 62-137          |      | 06/23/20 15:27 |            |
| Toluene-d8 (S)              | %     | 96           | 64-139          |      | 06/23/20 15:27 |            |

LABORATORY CONTROL SAMPLE: 2623526

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/kg | 100         | <100       | 87        | 82-119       |            |
| 1,1,1-Trichloroethane     | ug/kg | 100         | 98.9       | 99        | 82-125       |            |
| 1,1,2,2-Tetrachloroethane | ug/kg | 100         | 84.8       | 85        | 54-137       |            |
| 1,1,2-Trichloroethane     | ug/kg | 100         | 84.1       | 84        | 77-122       |            |
| 1,1-Dichloroethane        | ug/kg | 100         | 101        | 101       | 68-126       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

LABORATORY CONTROL SAMPLE: 2623526

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1-Dichloroethene          | ug/kg | 100         | 96.3       | 96        | 77-126       |            |
| 1,2,3-Trichlorobenzene      | ug/kg | 100         | <250       | 88        | 72-126       |            |
| 1,2,3-Trichloropropane      | ug/kg | 100         | <100       | 76        | 66-125       |            |
| 1,2,4-Trichlorobenzene      | ug/kg | 100         | <250       | 91        | 79-124       |            |
| 1,2,4-Trimethylbenzene      | ug/kg | 100         | <100       | 82        | 78-125       |            |
| 1,2-Dibromo-3-chloropropane | ug/kg | 100         | 85.6       | 86        | 64-133       |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | 100         | 83.0       | 83        | 78-124       |            |
| 1,2-Dichlorobenzene         | ug/kg | 100         | <100       | 80        | 79-117       |            |
| 1,2-Dichloroethane          | ug/kg | 100         | 90.2       | 90        | 74-116       |            |
| 1,2-Dichloropropane         | ug/kg | 100         | 90.0       | 90        | 70-142       |            |
| 1,3,5-Trimethylbenzene      | ug/kg | 100         | <100       | 83        | 76-122       |            |
| 1,3-Dichlorobenzene         | ug/kg | 100         | <100       | 84        | 80-118       |            |
| 1,4-Dichlorobenzene         | ug/kg | 100         | <100       | 80        | 76-115       |            |
| 2-Butanone (MEK)            | ug/kg | 500         | <750       | 89        | 65-126       |            |
| 2-Hexanone                  | ug/kg | 500         | <2500      | 97        | 54-141       |            |
| 2-Methylnaphthalene         | ug/kg | 100         | <330       | 71        | 47-148       |            |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | 500         | <2500      | 85        | 60-133       |            |
| Acetone                     | ug/kg | 500         | <1000      | 108       | 49-139       |            |
| Acrylonitrile               | ug/kg | 400         | 349        | 87        | 66-133       |            |
| Benzene                     | ug/kg | 100         | 90.2       | 90        | 71-126       |            |
| Bromobenzene                | ug/kg | 100         | <100       | 82        | 77-119       |            |
| Bromochloromethane          | ug/kg | 100         | 79.0       | 79        | 60-117       |            |
| Bromodichloromethane        | ug/kg | 100         | <100       | 83        | 79-122       |            |
| Bromoform                   | ug/kg | 100         | <100       | 76        | 64-121       |            |
| Bromomethane                | ug/kg | 100         | <200       | 103       | 10-200       |            |
| Carbon disulfide            | ug/kg | 100         | <250       | 97        | 54-129       |            |
| Carbon tetrachloride        | ug/kg | 100         | 105        | 105       | 78-120       |            |
| Chlorobenzene               | ug/kg | 100         | 87.5       | 87        | 81-117       |            |
| Chloroethane                | ug/kg | 100         | <250       | 102       | 54-134       |            |
| Chloroform                  | ug/kg | 100         | 83.3       | 83        | 80-119       |            |
| Chloromethane               | ug/kg | 100         | <250       | 93        | 31-118       |            |
| cis-1,2-Dichloroethene      | ug/kg | 100         | 87.4       | 87        | 77-125       |            |
| cis-1,3-Dichloropropene     | ug/kg | 100         | <100       | 93        | 74-133       |            |
| Cyclohexane                 | ug/kg | 100         | <500       | 103       | 49-128       | N2         |
| Dibromochloromethane        | ug/kg | 100         | <100       | 87        | 78-124       |            |
| Dibromomethane              | ug/kg | 100         | <250       | 86        | 73-129       |            |
| Dichlorodifluoromethane     | ug/kg | 100         | <250       | 119       | 32-173       |            |
| Diethyl ether (Ethyl ether) | ug/kg | 100         | <200       | 90        | 50-150       |            |
| Ethylbenzene                | ug/kg | 100         | 90.8       | 91        | 74-127       |            |
| Iodomethane                 | ug/kg | 200         | 132J       | 66        | 10-200       |            |
| Isopropylbenzene (Cumene)   | ug/kg | 100         | <250       | 94        | 85-121       |            |
| m&p-Xylene                  | ug/kg | 200         | 179        | 90        | 72-130       |            |
| Methyl-tert-butyl ether     | ug/kg | 100         | <250       | 88        | 78-135       |            |
| Methylene Chloride          | ug/kg | 100         | <100       | 91        | 73-119       |            |
| n-Butylbenzene              | ug/kg | 100         | 90.4       | 90        | 69-126       |            |
| n-Propylbenzene             | ug/kg | 100         | <100       | 85        | 73-124       |            |
| Naphthalene                 | ug/kg | 100         | <330       | 92        | 71-128       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

LABORATORY CONTROL SAMPLE: 2623526

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| o-Xylene                    | ug/kg | 100         | 89.0       | 89        | 74-128       |            |
| p-Isopropyltoluene          | ug/kg | 100         | 89.8       | 90        | 74-124       |            |
| sec-Butylbenzene            | ug/kg | 100         | 87.4       | 87        | 72-124       |            |
| Styrene                     | ug/kg | 100         | 88.8       | 89        | 83-121       |            |
| tert-Butyl Alcohol          | ug/kg | 200         | <2500      | 103       | 50-150       |            |
| tert-Butylbenzene           | ug/kg | 100         | 65.8       | 66        | 54-104       |            |
| Tetrachloroethene           | ug/kg | 100         | 95.5       | 95        | 74-120       |            |
| Tetrahydrofuran             | ug/kg | 100         | <1000      | 93        | 53-135 N2    |            |
| Toluene                     | ug/kg | 100         | <100       | 90        | 71-124       |            |
| trans-1,2-Dichloroethene    | ug/kg | 100         | 93.9       | 94        | 73-131       |            |
| trans-1,3-Dichloropropene   | ug/kg | 100         | <100       | 83        | 68-128       |            |
| trans-1,4-Dichloro-2-butene | ug/kg | 400         | 311J       | 78        | 22-132       |            |
| Trichloroethene             | ug/kg | 100         | 92.2       | 92        | 75-121       |            |
| Trichlorofluoromethane      | ug/kg | 100         | 125        | 125       | 64-135       |            |
| Vinyl chloride              | ug/kg | 100         | 109        | 109       | 51-137       |            |
| 4-Bromofluorobenzene (S)    | %.    |             |            | 100       | 60-142       |            |
| Dibromofluoromethane (S)    | %.    |             |            | 95        | 62-137       |            |
| Toluene-d8 (S)              | %.    |             |            | 98        | 64-139       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

|                  |          |                       |   |
|------------------|----------|-----------------------|---|
| QC Batch:        | 568681   | Analysis Method:      | EPA 8260                                |
| QC Batch Method: | EPA 8260 | Analysis Description: | 8260 MSV 5035 Volatile Organics         |
|                  |          | Laboratory:           | Pace Analytical Services - Indianapolis |

Associated Lab Samples: 50260268001, 50260268002, 50260268003, 50260268004, 50260268005, 50260268006, 50260268007, 50260268008, 50260268009, 50260268010, 50260268011, 50260268012, 50260268013, 50260268014, 50260268015, 50260268016, 50260268017

METHOD BLANK: 2623538 Matrix: Solid  
Associated Lab Samples: 50260268001, 50260268002, 50260268003, 50260268004, 50260268005, 50260268006, 50260268007, 50260268008, 50260268009, 50260268010, 50260268011, 50260268012, 50260268013, 50260268014, 50260268015, 50260268016, 50260268017

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| 1,1,1-Trichloroethane       | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| 1,1,2,2-Tetrachloroethane   | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| 1,1,2-Trichloroethane       | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| 1,1-Dichloroethane          | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| 1,1-Dichloroethene          | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| 1,2,3-Trichlorobenzene      | ug/kg | <250         | 250             | 250  | 06/24/20 03:04 |            |
| 1,2,3-Trichloropropane      | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| 1,2,3-Trimethylbenzene      | ug/kg | <250         | 250             | 250  | 06/24/20 03:04 | N2         |
| 1,2,4-Trichlorobenzene      | ug/kg | <250         | 250             | 250  | 06/24/20 03:04 |            |
| 1,2,4-Trimethylbenzene      | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| 1,2-Dibromo-3-chloropropane | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| 1,2-Dichlorobenzene         | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| 1,2-Dichloroethane          | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| 1,2-Dichloropropane         | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| 1,3,5-Trimethylbenzene      | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| 1,3-Dichlorobenzene         | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| 1,4-Dichlorobenzene         | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| 2-Butanone (MEK)            | ug/kg | <750         | 750             | 750  | 06/24/20 03:04 |            |
| 2-Hexanone                  | ug/kg | <2500        | 2500            | 2500 | 06/24/20 03:04 |            |
| 2-Methylnaphthalene         | ug/kg | <330         | 330             | 330  | 06/24/20 03:04 |            |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | <2500        | 2500            | 2500 | 06/24/20 03:04 |            |
| Acetone                     | ug/kg | <1000        | 1000            | 1000 | 06/24/20 03:04 |            |
| Acrylonitrile               | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| Benzene                     | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| Bromobenzene                | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| Bromochloromethane          | ug/kg | <25.0        | 50.0            | 25.0 | 06/24/20 03:04 |            |
| Bromodichloromethane        | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| Bromoform                   | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| Bromomethane                | ug/kg | <200         | 200             | 200  | 06/24/20 03:04 |            |
| Carbon disulfide            | ug/kg | <250         | 250             | 250  | 06/24/20 03:04 |            |
| Carbon tetrachloride        | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| Chlorobenzene               | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| Chloroethane                | ug/kg | <250         | 250             | 250  | 06/24/20 03:04 |            |
| Chloroform                  | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| Chloromethane               | ug/kg | <250         | 250             | 250  | 06/24/20 03:04 |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

METHOD BLANK: 2623538

Matrix: Solid

Associated Lab Samples: 50260268001, 50260268002, 50260268003, 50260268004, 50260268005, 50260268006, 50260268007, 50260268008, 50260268009, 50260268010, 50260268011, 50260268012, 50260268013, 50260268014, 50260268015, 50260268016, 50260268017

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| cis-1,2-Dichloroethene      | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| cis-1,3-Dichloropropene     | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| Cyclohexane                 | ug/kg | <500         | 500             | 500  | 06/24/20 03:04 | N2         |
| Dibromochloromethane        | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| Dibromomethane              | ug/kg | <250         | 250             | 250  | 06/24/20 03:04 |            |
| Dichlorodifluoromethane     | ug/kg | <250         | 250             | 250  | 06/24/20 03:04 |            |
| Diethyl ether (Ethyl ether) | ug/kg | <200         | 200             | 200  | 06/24/20 03:04 |            |
| Diisopropyl ether           | ug/kg | <250         | 250             | 250  | 06/24/20 03:04 | N2         |
| Ethyl-tert-butyl ether      | ug/kg | <250         | 250             | 250  | 06/24/20 03:04 | N2         |
| Ethylbenzene                | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| Hexachloroethane            | ug/kg | <300         | 300             | 300  | 06/24/20 03:04 | N2         |
| Iodomethane                 | ug/kg | <100         | 1000            | 100  | 06/24/20 03:04 |            |
| Isopropylbenzene (Cumene)   | ug/kg | <250         | 250             | 250  | 06/24/20 03:04 |            |
| m&p-Xylene                  | ug/kg | <25.0        | 50.0            | 25.0 | 06/24/20 03:04 |            |
| Methyl-tert-butyl ether     | ug/kg | <250         | 250             | 250  | 06/24/20 03:04 |            |
| Methylene Chloride          | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| n-Butylbenzene              | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| n-Propylbenzene             | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| Naphthalene                 | ug/kg | <330         | 330             | 330  | 06/24/20 03:04 |            |
| o-Xylene                    | ug/kg | <25.0        | 50.0            | 25.0 | 06/24/20 03:04 |            |
| p-Isopropyltoluene          | ug/kg | <25.0        | 50.0            | 25.0 | 06/24/20 03:04 |            |
| sec-Butylbenzene            | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| Styrene                     | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| tert-Amylmethyl ether       | ug/kg | <250         | 250             | 250  | 06/24/20 03:04 | N2         |
| tert-Butyl Alcohol          | ug/kg | <2500        | 2500            | 2500 | 06/24/20 03:04 |            |
| tert-Butylbenzene           | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| Tetrachloroethene           | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| Tetrahydrofuran             | ug/kg | <1000        | 1000            | 1000 | 06/24/20 03:04 | N2         |
| Toluene                     | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| trans-1,2-Dichloroethene    | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| trans-1,3-Dichloropropene   | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| trans-1,4-Dichloro-2-butene | ug/kg | <100         | 1000            | 100  | 06/24/20 03:04 |            |
| Trichloroethene             | ug/kg | <50.0        | 50.0            | 50.0 | 06/24/20 03:04 |            |
| Trichlorofluoromethane      | ug/kg | <100         | 100             | 100  | 06/24/20 03:04 |            |
| Vinyl chloride              | ug/kg | <40.0        | 40.0            | 40.0 | 06/24/20 03:04 |            |
| 4-Bromofluorobenzene (S)    | %     | 103          | 60-142          |      | 06/24/20 03:04 |            |
| Dibromofluoromethane (S)    | %     | 106          | 62-137          |      | 06/24/20 03:04 |            |
| Toluene-d8 (S)              | %     | 98           | 64-139          |      | 06/24/20 03:04 |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

LABORATORY CONTROL SAMPLE: 2623539

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/kg | 100         | <100       | 96        | 82-119       |            |
| 1,1,1-Trichloroethane       | ug/kg | 100         | 103        | 103       | 82-125       |            |
| 1,1,2,2-Tetrachloroethane   | ug/kg | 100         | 93.9       | 94        | 54-137       |            |
| 1,1,2-Trichloroethane       | ug/kg | 100         | 94.6       | 95        | 77-122       |            |
| 1,1-Dichloroethane          | ug/kg | 100         | 103        | 103       | 68-126       |            |
| 1,1-Dichloroethene          | ug/kg | 100         | 101        | 101       | 77-126       |            |
| 1,2,3-Trichlorobenzene      | ug/kg | 100         | <250       | 97        | 72-126       |            |
| 1,2,3-Trichloropropane      | ug/kg | 100         | <100       | 85        | 66-125       |            |
| 1,2,4-Trichlorobenzene      | ug/kg | 100         | <250       | 98        | 79-124       |            |
| 1,2,4-Trimethylbenzene      | ug/kg | 100         | <100       | 86        | 78-125       |            |
| 1,2-Dibromo-3-chloropropane | ug/kg | 100         | 91.3       | 91        | 64-133       |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | 100         | 92.3       | 92        | 78-124       |            |
| 1,2-Dichlorobenzene         | ug/kg | 100         | <100       | 86        | 79-117       |            |
| 1,2-Dichloroethane          | ug/kg | 100         | 93.3       | 93        | 74-116       |            |
| 1,2-Dichloropropane         | ug/kg | 100         | 95.2       | 95        | 70-142       |            |
| 1,3,5-Trimethylbenzene      | ug/kg | 100         | <100       | 88        | 76-122       |            |
| 1,3-Dichlorobenzene         | ug/kg | 100         | <100       | 87        | 80-118       |            |
| 1,4-Dichlorobenzene         | ug/kg | 100         | <100       | 83        | 76-115       |            |
| 2-Butanone (MEK)            | ug/kg | 500         | <750       | 96        | 65-126       |            |
| 2-Hexanone                  | ug/kg | 500         | <2500      | 112       | 54-141       |            |
| 2-Methylnaphthalene         | ug/kg | 100         | <330       | 79        | 47-148       |            |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | 500         | <2500      | 98        | 60-133       |            |
| Acetone                     | ug/kg | 500         | <1000      | 113       | 49-139       |            |
| Acrylonitrile               | ug/kg | 400         | 384        | 96        | 66-133       |            |
| Benzene                     | ug/kg | 100         | 95.7       | 96        | 71-126       |            |
| Bromobenzene                | ug/kg | 100         | <100       | 89        | 77-119       |            |
| Bromochloromethane          | ug/kg | 100         | 85.2       | 85        | 60-117       |            |
| Bromodichloromethane        | ug/kg | 100         | <100       | 88        | 79-122       |            |
| Bromoform                   | ug/kg | 100         | <100       | 84        | 64-121       |            |
| Bromomethane                | ug/kg | 100         | <200       | 80        | 10-200       |            |
| Carbon disulfide            | ug/kg | 100         | <250       | 98        | 54-129       |            |
| Carbon tetrachloride        | ug/kg | 100         | 105        | 105       | 78-120       |            |
| Chlorobenzene               | ug/kg | 100         | 93.6       | 94        | 81-117       |            |
| Chloroethane                | ug/kg | 100         | <250       | 101       | 54-134       |            |
| Chloroform                  | ug/kg | 100         | 87.3       | 87        | 80-119       |            |
| Chloromethane               | ug/kg | 100         | <250       | 95        | 31-118       |            |
| cis-1,2-Dichloroethene      | ug/kg | 100         | 92.5       | 93        | 77-125       |            |
| cis-1,3-Dichloropropene     | ug/kg | 100         | <100       | 97        | 74-133       |            |
| Cyclohexane                 | ug/kg | 100         | <500       | 107       | 49-128 N2    |            |
| Dibromochloromethane        | ug/kg | 100         | <100       | 97        | 78-124       |            |
| Dibromomethane              | ug/kg | 100         | <250       | 90        | 73-129       |            |
| Dichlorodifluoromethane     | ug/kg | 100         | <250       | 124       | 32-173       |            |
| Diethyl ether (Ethyl ether) | ug/kg | 100         | <200       | 95        | 50-150       |            |
| Ethylbenzene                | ug/kg | 100         | 96.6       | 97        | 74-127       |            |
| Iodomethane                 | ug/kg | 200         | 110J       | 55        | 10-200       |            |
| Isopropylbenzene (Cumene)   | ug/kg | 100         | <250       | 101       | 85-121       |            |
| m&p-Xylene                  | ug/kg | 200         | 195        | 97        | 72-130       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

LABORATORY CONTROL SAMPLE: 2623539

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Methyl-tert-butyl ether     | ug/kg | 100         | <250       | 97        | 78-135       |            |
| Methylene Chloride          | ug/kg | 100         | <100       | 99        | 73-119       |            |
| n-Butylbenzene              | ug/kg | 100         | 90.0       | 90        | 69-126       |            |
| n-Propylbenzene             | ug/kg | 100         | <100       | 90        | 73-124       |            |
| Naphthalene                 | ug/kg | 100         | <330       | 101       | 71-128       |            |
| o-Xylene                    | ug/kg | 100         | 93.9       | 94        | 74-128       |            |
| p-Isopropyltoluene          | ug/kg | 100         | 92.0       | 92        | 74-124       |            |
| sec-Butylbenzene            | ug/kg | 100         | 91.0       | 91        | 72-124       |            |
| Styrene                     | ug/kg | 100         | 94.1       | 94        | 83-121       |            |
| tert-Butyl Alcohol          | ug/kg | 200         | <2500      | 131       | 50-150       |            |
| tert-Butylbenzene           | ug/kg | 100         | 68.8       | 69        | 54-104       |            |
| Tetrachloroethene           | ug/kg | 100         | 98.8       | 99        | 74-120       |            |
| Tetrahydrofuran             | ug/kg | 100         | <1000      | 108       | 53-135       | N2         |
| Toluene                     | ug/kg | 100         | <100       | 99        | 71-124       |            |
| trans-1,2-Dichloroethene    | ug/kg | 100         | 98.3       | 98        | 73-131       |            |
| trans-1,3-Dichloropropene   | ug/kg | 100         | <100       | 89        | 68-128       |            |
| trans-1,4-Dichloro-2-butene | ug/kg | 400         | 313J       | 78        | 22-132       |            |
| Trichloroethene             | ug/kg | 100         | 94.1       | 94        | 75-121       |            |
| Trichlorofluoromethane      | ug/kg | 100         | 128        | 128       | 64-135       |            |
| Vinyl chloride              | ug/kg | 100         | 113        | 113       | 51-137       |            |
| 4-Bromofluorobenzene (S)    | %     |             |            | 105       | 60-142       |            |
| Dibromofluoromethane (S)    | %     |             |            | 99        | 62-137       |            |
| Toluene-d8 (S)              | %     |             |            | 102       | 64-139       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

QC Batch: 569057 Analysis Method: EPA 8082  
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50260268002, 50260268004, 50260268008, 50260268009, 50260268012

METHOD BLANK: 2625307 Matrix: Solid  
Associated Lab Samples: 50260268002, 50260268004, 50260268008, 50260268009, 50260268012

| Parameter                | Units | Blank Result | Reporting Limit | MDL | Analyzed       | Qualifiers |
|--------------------------|-------|--------------|-----------------|-----|----------------|------------|
| PCB-1016 (Aroclor 1016)  | ug/kg | <328         | 328             | 328 | 06/25/20 23:23 |            |
| PCB-1221 (Aroclor 1221)  | ug/kg | <328         | 328             | 328 | 06/25/20 23:23 |            |
| PCB-1232 (Aroclor 1232)  | ug/kg | <328         | 328             | 328 | 06/25/20 23:23 |            |
| PCB-1242 (Aroclor 1242)  | ug/kg | <328         | 328             | 328 | 06/25/20 23:23 |            |
| PCB-1248 (Aroclor 1248)  | ug/kg | <328         | 328             | 328 | 06/25/20 23:23 |            |
| PCB-1254 (Aroclor 1254)  | ug/kg | <328         | 328             | 328 | 06/25/20 23:23 |            |
| PCB-1260 (Aroclor 1260)  | ug/kg | <328         | 328             | 328 | 06/25/20 23:23 |            |
| PCB-1262 (Aroclor 1262)  | ug/kg | <328         | 328             | 328 | 06/25/20 23:23 | N2         |
| PCB-1268 (Aroclor 1268)  | ug/kg | <328         | 328             | 328 | 06/25/20 23:23 | N2         |
| Tetrachloro-m-xylene (S) | %     | 69           | 25-123          |     | 06/25/20 23:23 |            |

LABORATORY CONTROL SAMPLE: 2625308

| Parameter                | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| PCB-1016 (Aroclor 1016)  | ug/kg | 164         | <326       | 84        | 54-128       |            |
| PCB-1260 (Aroclor 1260)  | ug/kg | 164         | <326       | 76        | 36-118       |            |
| Tetrachloro-m-xylene (S) | %     |             |            | 76        | 25-123       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2625309 2625310

| Parameter                | Units | MS                 |             | MSD         |        | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual  |
|--------------------------|-------|--------------------|-------------|-------------|--------|----------|-----------|--------------|--------|---------|-------|
|                          |       | 50260681001 Result | Spike Conc. | Spike Conc. | Result |          |           |              |        |         |       |
| PCB-1016 (Aroclor 1016)  | ug/kg | ND                 | 166         | 167         | <32800 | <33000   | 585       | 659          | 10-145 | 20      | M0    |
| PCB-1260 (Aroclor 1260)  | ug/kg | 16.1 mg/kg         | 166         | 167         | <32800 | <33000   | -3130     | -2820        | 11-124 | 4       | 20 M0 |
| Tetrachloro-m-xylene (S) | %     |                    |             |             |        |          | 0         | 0            | 25-123 |         |       |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

QC Batch: 568613 Analysis Method: EPA 8270  
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave Short Spike  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50260268001, 50260268002, 50260268003, 50260268004, 50260268005, 50260268006, 50260268007, 50260268008, 50260268010, 50260268011

METHOD BLANK: 2623260 Matrix: Solid  
Associated Lab Samples: 50260268001, 50260268002, 50260268003, 50260268004, 50260268005, 50260268006, 50260268007, 50260268008, 50260268010, 50260268011

| Parameter                    | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|------------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2,4-Trichlorobenzene       | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 1,2-Diphenylhydrazine        | ug/kg | <1540        | 1540            | 1540 | 06/24/20 08:01 |            |
| 2,4,5-Trichlorophenol        | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 2,4,6-Trichlorophenol        | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 2,4-Dichlorophenol           | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 2,4-Dimethylphenol           | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 2,4-Dinitrophenol            | ug/kg | <1540        | 1540            | 1540 | 06/24/20 08:01 |            |
| 2,4-Dinitrotoluene           | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 2,6-Dinitrotoluene           | ug/kg | <85.4        | 318             | 85.4 | 06/24/20 08:01 |            |
| 2-Chloronaphthalene          | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 2-Chlorophenol               | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 2-Methylnaphthalene          | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 2-Methylphenol(o-Cresol)     | ug/kg | <965         | 965             | 965  | 06/24/20 08:01 |            |
| 2-Nitroaniline               | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 2-Nitrophenol                | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 3&4-Methylphenol(m&p Cresol) | ug/kg | <965         | 965             | 965  | 06/24/20 08:01 |            |
| 3-Nitroaniline               | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 4,6-Dinitro-2-methylphenol   | ug/kg | <801         | 801             | 801  | 06/24/20 08:01 |            |
| 4-Bromophenylphenyl ether    | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 4-Chloro-3-methylphenol      | ug/kg | <270         | 318             | 270  | 06/24/20 08:01 |            |
| 4-Chlorophenylphenyl ether   | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 4-Nitroaniline               | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 4-Nitrophenol                | ug/kg | <1540        | 1540            | 1540 | 06/24/20 08:01 |            |
| Acenaphthene                 | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Acenaphthylene               | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Anthracene                   | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Benzo(a)anthracene           | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Benzo(a)pyrene               | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Benzo(b)fluoranthene         | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Benzo(g,h,i)perylene         | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Benzo(k)fluoranthene         | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| bis(2-Chloroethoxy)methane   | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| bis(2-Chloroethyl) ether     | ug/kg | <154         | 318             | 154  | 06/24/20 08:01 |            |
| bis(2-Chloroisopropyl) ether | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| bis(2-Ethylhexyl)phthalate   | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Butylbenzylphthalate         | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Carbazole                    | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Chrysene                     | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Di-n-butylphthalate          | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

METHOD BLANK: 2623260 Matrix: Solid  
Associated Lab Samples: 50260268001, 50260268002, 50260268003, 50260268004, 50260268005, 50260268006, 50260268007, 50260268008, 50260268010, 50260268011

| Parameter                  | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|----------------------------|-------|--------------|-----------------|------|----------------|------------|
| Di-n-octylphthalate        | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Dibenz(a,h)anthracene      | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Dibenzofuran               | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Diethylphthalate           | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Dimethylphthalate          | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Fluoranthene               | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Fluorene                   | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Hexachloro-1,3-butadiene   | ug/kg | <92.6        | 318             | 92.6 | 06/24/20 08:01 |            |
| Hexachlorobenzene          | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Hexachlorocyclopentadiene  | ug/kg | <965         | 965             | 965  | 06/24/20 08:01 |            |
| Hexachloroethane           | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Indeno(1,2,3-cd)pyrene     | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Isophorone                 | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| N-Nitroso-di-n-propylamine | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| N-Nitrosodimethylamine     | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| N-Nitrosodiphenylamine     | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Naphthalene                | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Nitrobenzene               | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Pentachlorophenol          | ug/kg | <1420        | 1540            | 1420 | 06/24/20 08:01 |            |
| Phenanthrene               | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Phenol                     | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| Pyrene                     | ug/kg | <318         | 318             | 318  | 06/24/20 08:01 |            |
| 2,4,6-Tribromophenol (S)   | %     | 84           | 20-109          |      | 06/24/20 08:01 |            |
| 2-Fluorobiphenyl (S)       | %     | 81           | 36-91           |      | 06/24/20 08:01 |            |
| 2-Fluorophenol (S)         | %     | 96           | 24-95           |      | 06/24/20 08:01 | S3         |
| Nitrobenzene-d5 (S)        | %     | 59           | 26-96           |      | 06/24/20 08:01 |            |
| p-Terphenyl-d14 (S)        | %     | 107          | 27-117          |      | 06/24/20 08:01 |            |
| Phenol-d5 (S)              | %     | 82           | 32-93           |      | 06/24/20 08:01 |            |

LABORATORY CONTROL SAMPLE: 2623261

| Parameter               | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2,4-Trichlorobenzene  | ug/kg | 1570        | 1290       | 82        | 52-89        |            |
| 2,4-Dinitrotoluene      | ug/kg | 1570        | 1340       | 86        | 41-116       |            |
| 2-Chlorophenol          | ug/kg | 1570        | 1450       | 92        | 48-97        |            |
| 2-Methylnaphthalene     | ug/kg | 1570        | 1410       | 90        | 51-98        |            |
| 4-Chloro-3-methylphenol | ug/kg | 1570        | 1670       | 106       | 51-108       |            |
| 4-Nitrophenol           | ug/kg | 1570        | <1500      | 75        | 42-118       |            |
| Acenaphthene            | ug/kg | 1570        | 1270       | 81        | 58-94        |            |
| Acenaphthylene          | ug/kg | 1570        | 1240       | 79        | 56-94        |            |
| Anthracene              | ug/kg | 1570        | 1350       | 86        | 59-98        |            |
| Benzo(a)anthracene      | ug/kg | 1570        | 1390       | 89        | 60-103       |            |
| Benzo(a)pyrene          | ug/kg | 1570        | 1430       | 91        | 57-96        |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

LABORATORY CONTROL SAMPLE: 2623261

| Parameter                  | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Benzo(b)fluoranthene       | ug/kg | 1570        | 1500       | 96        | 57-104       |            |
| Benzo(g,h,i)perylene       | ug/kg | 1570        | 1260       | 80        | 56-103       |            |
| Benzo(k)fluoranthene       | ug/kg | 1570        | 1440       | 92        | 55-104       |            |
| Chrysene                   | ug/kg | 1570        | 1390       | 89        | 59-105       |            |
| Dibenz(a,h)anthracene      | ug/kg | 1570        | 1260       | 80        | 54-103       |            |
| Fluoranthene               | ug/kg | 1570        | 1440       | 92        | 57-107       |            |
| Fluorene                   | ug/kg | 1570        | 1100       | 70        | 58-101       |            |
| Indeno(1,2,3-cd)pyrene     | ug/kg | 1570        | 1250       | 80        | 54-104       |            |
| N-Nitroso-di-n-propylamine | ug/kg | 1570        | 1240       | 79        | 43-94        |            |
| Naphthalene                | ug/kg | 1570        | 1330       | 85        | 51-90        |            |
| Pentachlorophenol          | ug/kg | 1570        | <1380      | 71        | 24-118       |            |
| Phenanthrene               | ug/kg | 1570        | 1380       | 88        | 60-96        |            |
| Phenol                     | ug/kg | 1570        | 1330       | 85        | 44-101       |            |
| Pyrene                     | ug/kg | 1570        | 1360       | 87        | 59-108       |            |
| 2,4,6-Tribromophenol (S)   | %     |             |            | 86        | 20-109       |            |
| 2-Fluorobiphenyl (S)       | %     |             |            | 92        | 36-91        | S0         |
| 2-Fluorophenol (S)         | %     |             |            | 98        | 24-95        | S0         |
| Nitrobenzene-d5 (S)        | %     |             |            | 72        | 26-96        |            |
| p-Terphenyl-d14 (S)        | %     |             |            | 113       | 27-117       |            |
| Phenol-d5 (S)              | %     |             |            | 92        | 32-93        |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2623262 2623263

| Parameter                  | Units | MS                 |             | MSD         |       | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------|-------------|-------------|-------|-----------|------------|----------|-----------|--------------|-----|---------|------|
|                            |       | 50259803017 Result | Spike Conc. | Spike Conc. | Conc. |           |            |          |           |              |     |         |      |
| 1,2,4-Trichlorobenzene     | ug/kg | ND                 | 1920        | 1950        | 1510  | 1780      | 79         | 91       | 30-96     | 16           | 20  |         |      |
| 2,4-Dinitrotoluene         | ug/kg | ND                 | 1920        | 1950        | 1230  | 804       | 64         | 41       | 10-127    | 42           | 20  | R1      |      |
| 2-Chlorophenol             | ug/kg | ND                 | 1920        | 1950        | 1620  | 1540      | 84         | 79       | 17-107    | 5            | 20  |         |      |
| 2-Methylnaphthalene        | ug/kg | ND                 | 1920        | 1950        | 1980  | 1560      | 103        | 80       | 20-120    | 23           | 20  | R1      |      |
| 4-Chloro-3-methylphenol    | ug/kg | ND                 | 1920        | 1950        | 2320  | 1760      | 121        | 90       | 22-117    | 28           | 20  | M1,R1   |      |
| 4-Nitrophenol              | ug/kg | ND                 | 1920        | 1950        | <1850 | <1870     | 72         | 61       | 10-131    |              | 20  |         |      |
| Acenaphthene               | ug/kg | ND                 | 1920        | 1950        | 1500  | 1530      | 78         | 78       | 19-115    | 2            | 20  |         |      |
| Acenaphthylene             | ug/kg | ND                 | 1920        | 1950        | 1460  | 1530      | 76         | 78       | 11-122    | 5            | 20  |         |      |
| Anthracene                 | ug/kg | ND                 | 1920        | 1950        | 1370  | 1460      | 71         | 75       | 10-133    | 6            | 20  |         |      |
| Benzo(a)anthracene         | ug/kg | ND                 | 1920        | 1950        | 1290  | 1440      | 67         | 74       | 10-137    | 11           | 20  |         |      |
| Benzo(a)pyrene             | ug/kg | ND                 | 1920        | 1950        | 1270  | 1410      | 66         | 72       | 10-132    | 11           | 20  |         |      |
| Benzo(b)fluoranthene       | ug/kg | ND                 | 1920        | 1950        | 1410  | 1470      | 73         | 75       | 10-134    | 4            | 20  |         |      |
| Benzo(g,h,i)perylene       | ug/kg | ND                 | 1920        | 1950        | 1130  | 1250      | 59         | 64       | 10-138    | 10           | 20  |         |      |
| Benzo(k)fluoranthene       | ug/kg | ND                 | 1920        | 1950        | 1330  | 1280      | 69         | 66       | 10-140    | 4            | 20  |         |      |
| Chrysene                   | ug/kg | ND                 | 1920        | 1950        | 1420  | 1500      | 74         | 77       | 10-150    | 5            | 20  |         |      |
| Dibenz(a,h)anthracene      | ug/kg | ND                 | 1920        | 1950        | 1230  | 1320      | 64         | 67       | 10-126    | 7            | 20  |         |      |
| Fluoranthene               | ug/kg | ND                 | 1920        | 1950        | 1280  | 1480      | 66         | 76       | 10-128    | 15           | 20  |         |      |
| Fluorene                   | ug/kg | ND                 | 1920        | 1950        | 1570  | 1520      | 81         | 78       | 12-127    | 3            | 20  |         |      |
| Indeno(1,2,3-cd)pyrene     | ug/kg | ND                 | 1920        | 1950        | 1130  | 1250      | 58         | 64       | 10-125    | 10           | 20  |         |      |
| N-Nitroso-di-n-propylamine | ug/kg | ND                 | 1920        | 1950        | 1480  | 1990      | 77         | 102      | 23-101    | 29           | 20  | M1,R1   |      |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

| Parameter                | Units | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2623262 |                      | 2623263               |       | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | RPD | Max<br>RPD | Qual |
|--------------------------|-------|--|----------------------|-----------------------|-------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
|                          |       | 50259803017<br>Result                          | MS<br>Spike<br>Conc. | MSD<br>Spike<br>Conc. |       |              |               |             |              |                 |     |            |      |
| Naphthalene              | ug/kg | ND   | 1920                 | 1950                  | 1550  | 1410         | 81            | 72          | 12-120       | 9               | 20  |            |      |
| Pentachlorophenol        | ug/kg | ND   | 1920                 | 1950                  | <1700 | <1720        | 82            | 78          | 10-112       |                 | 20  |            |      |
| Phenanthrene             | ug/kg | ND   | 1920                 | 1950                  | 1430  | 1530         | 74            | 79          | 10-125       | 7               | 20  |            |      |
| Phenol                   | ug/kg | ND   | 1920                 | 1950                  | 1500  | 1500         | 78            | 77          | 22-105       | 0               | 20  |            |      |
| Pyrene                   | ug/kg | ND   | 1920                 | 1950                  | 1390  | 1750         | 72            | 90          | 10-146       | 23              | 20  | R1         |      |
| 2,4,6-Tribromophenol (S) | %     |  |                      |                       |       |              | 79            | 76          | 20-109       |                 |     |            |      |
| 2-Fluorobiphenyl (S)     | %     |  |                      |                       |       |              | 99            | 79          | 36-91        |                 |     | S0         |      |
| 2-Fluorophenol (S)       | %     |  |                      |                       |       |              | 81            | 82          | 24-95        |                 |     |            |      |
| Nitrobenzene-d5 (S)      | %     |  |                      |                       |       |              | 75            | 79          | 26-96        |                 |     |            |      |
| p-Terphenyl-d14 (S)      | %     |  |                      |                       |       |              | 85            | 87          | 27-117       |                 |     |            |      |
| Phenol-d5 (S)            | %     |  |                      |                       |       |              | 84            | 82          | 32-93        |                 |     |            |      |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

QC Batch: 569058 Analysis Method: EPA 8270  
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave Short Spike  
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50260268012, 50260268014, 50260268015

METHOD BLANK: 2625311 Matrix: Solid

Associated Lab Samples: 50260268012, 50260268014, 50260268015

| Parameter                    | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|------------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2,4-Trichlorobenzene       | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 1,2-Diphenylhydrazine        | ug/kg | <1600        | 1600            | 1600 | 06/25/20 14:54 |            |
| 2,4,5-Trichlorophenol        | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 2,4,6-Trichlorophenol        | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 2,4-Dichlorophenol           | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 2,4-Dimethylphenol           | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 2,4-Dinitrophenol            | ug/kg | <1600        | 1600            | 1600 | 06/25/20 14:54 |            |
| 2,4-Dinitrotoluene           | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 2,6-Dinitrotoluene           | ug/kg | <88.5        | 330             | 88.5 | 06/25/20 14:54 |            |
| 2-Chloronaphthalene          | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 2-Chlorophenol               | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 2-Methylnaphthalene          | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 2-Methylphenol(o-Cresol)     | ug/kg | <1000        | 1000            | 1000 | 06/25/20 14:54 |            |
| 2-Nitroaniline               | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 2-Nitrophenol                | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 3&4-Methylphenol(m&p Cresol) | ug/kg | <1000        | 1000            | 1000 | 06/25/20 14:54 |            |
| 3-Nitroaniline               | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 4,6-Dinitro-2-methylphenol   | ug/kg | <830         | 830             | 830  | 06/25/20 14:54 |            |
| 4-Bromophenylphenyl ether    | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 4-Chloro-3-methylphenol      | ug/kg | <280         | 330             | 280  | 06/25/20 14:54 |            |
| 4-Chlorophenylphenyl ether   | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 4-Nitroaniline               | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 4-Nitrophenol                | ug/kg | <1600        | 1600            | 1600 | 06/25/20 14:54 |            |
| Acenaphthene                 | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Acenaphthylene               | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Anthracene                   | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Benzo(a)anthracene           | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Benzo(a)pyrene               | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Benzo(b)fluoranthene         | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Benzo(g,h,i)perylene         | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Benzo(k)fluoranthene         | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| bis(2-Chloroethoxy)methane   | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| bis(2-Chloroethyl) ether     | ug/kg | <160         | 330             | 160  | 06/25/20 14:54 |            |
| bis(2-Chloroisopropyl) ether | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| bis(2-Ethylhexyl)phthalate   | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Butylbenzylphthalate         | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Carbazole                    | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Chrysene                     | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Di-n-butylphthalate          | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Di-n-octylphthalate          | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

METHOD BLANK: 2625311 Matrix: Solid  
Associated Lab Samples: 50260268012, 50260268014, 50260268015

| Parameter                  | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|----------------------------|-------|--------------|-----------------|------|----------------|------------|
| Dibenz(a,h)anthracene      | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Dibenzofuran               | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Diethylphthalate           | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Dimethylphthalate          | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Fluoranthene               | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Fluorene                   | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Hexachloro-1,3-butadiene   | ug/kg | <96.0        | 330             | 96.0 | 06/25/20 14:54 |            |
| Hexachlorobenzene          | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Hexachlorocyclopentadiene  | ug/kg | <1000        | 1000            | 1000 | 06/25/20 14:54 |            |
| Hexachloroethane           | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Indeno(1,2,3-cd)pyrene     | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Isophorone                 | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| N-Nitroso-di-n-propylamine | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| N-Nitrosodimethylamine     | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| N-Nitrosodiphenylamine     | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Naphthalene                | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Nitrobenzene               | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Pentachlorophenol          | ug/kg | <1470        | 1600            | 1470 | 06/25/20 14:54 |            |
| Phenanthrene               | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Phenol                     | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| Pyrene                     | ug/kg | <330         | 330             | 330  | 06/25/20 14:54 |            |
| 2,4,6-Tribromophenol (S)   | %     | 83           | 20-109          |      | 06/25/20 14:54 |            |
| 2-Fluorobiphenyl (S)       | %     | 110          | 36-91           |      | 06/25/20 14:54 | S3         |
| 2-Fluorophenol (S)         | %     | 95           | 24-95           |      | 06/25/20 14:54 |            |
| Nitrobenzene-d5 (S)        | %     | 53           | 26-96           |      | 06/25/20 14:54 |            |
| p-Terphenyl-d14 (S)        | %     | 111          | 27-117          |      | 06/25/20 14:54 |            |
| Phenol-d5 (S)              | %     | 93           | 32-93           |      | 06/25/20 14:54 |            |

LABORATORY CONTROL SAMPLE: 2625312

| Parameter               | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2,4-Trichlorobenzene  | ug/kg | 1670        | 1280       | 77        | 52-89        |            |
| 2,4-Dinitrotoluene      | ug/kg | 1670        | 1360       | 81        | 41-116       |            |
| 2-Chlorophenol          | ug/kg | 1670        | 1370       | 82        | 48-97        |            |
| 2-Methylnaphthalene     | ug/kg | 1670        | 1250       | 75        | 51-98        |            |
| 4-Chloro-3-methylphenol | ug/kg | 1670        | 1470       | 88        | 51-108       |            |
| 4-Nitrophenol           | ug/kg | 1670        | <1600      | 69        | 42-118       |            |
| Acenaphthene            | ug/kg | 1670        | 1330       | 80        | 58-94        |            |
| Acenaphthylene          | ug/kg | 1670        | 1310       | 79        | 56-94        |            |
| Anthracene              | ug/kg | 1670        | 1320       | 79        | 59-98        |            |
| Benzo(a)anthracene      | ug/kg | 1670        | 1400       | 84        | 60-103       |            |
| Benzo(a)pyrene          | ug/kg | 1670        | 1370       | 82        | 57-96        |            |
| Benzo(b)fluoranthene    | ug/kg | 1670        | 1490       | 89        | 57-104       |            |
| Benzo(g,h,i)perylene    | ug/kg | 1670        | 1220       | 73        | 56-103       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

LABORATORY CONTROL SAMPLE: 2625312

| Parameter                  | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Benzo(k)fluoranthene       | ug/kg | 1670        | 1320       | 79        | 55-104       |            |
| Chrysene                   | ug/kg | 1670        | 1320       | 79        | 59-105       |            |
| Dibenz(a,h)anthracene      | ug/kg | 1670        | 1240       | 75        | 54-103       |            |
| Fluoranthene               | ug/kg | 1670        | 1890       | 113       | 57-107       | L1         |
| Fluorene                   | ug/kg | 1670        | 1330       | 80        | 58-101       |            |
| Indeno(1,2,3-cd)pyrene     | ug/kg | 1670        | 1230       | 74        | 54-104       |            |
| N-Nitroso-di-n-propylamine | ug/kg | 1670        | 1300       | 78        | 43-94        |            |
| Naphthalene                | ug/kg | 1670        | 1250       | 75        | 51-90        |            |
| Pentachlorophenol          | ug/kg | 1670        | <1470      | 73        | 24-118       |            |
| Phenanthrene               | ug/kg | 1670        | 1350       | 81        | 60-96        |            |
| Phenol                     | ug/kg | 1670        | 1320       | 79        | 44-101       |            |
| Pyrene                     | ug/kg | 1670        | 1590       | 95        | 59-108       |            |
| 2,4,6-Tribromophenol (S)   | %     |             |            | 83        | 20-109       |            |
| 2-Fluorobiphenyl (S)       | %     |             |            | 94        | 36-91        | S0         |
| 2-Fluorophenol (S)         | %     |             |            | 90        | 24-95        |            |
| Nitrobenzene-d5 (S)        | %     |             |            | 74        | 26-96        |            |
| p-Terphenyl-d14 (S)        | %     |             |            | 150       | 27-117       | S0         |
| Phenol-d5 (S)              | %     |             |            | 84        | 32-93        |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2625313 2625314

| Parameter                  | Units | MS                 |             | MSD         |       | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------|-------------|-------------|-------|-----------|------------|----------|-----------|--------------|-----|---------|------|
|                            |       | 50259803013 Result | Spike Conc. | Spike Conc. | Conc. |           |            |          |           |              |     |         |      |
| 1,2,4-Trichlorobenzene     | ug/kg | ND                 | 1830        | 1860        | 1500  | 1510      | 81         | 81       | 30-96     | 1            | 20  |         |      |
| 2,4-Dinitrotoluene         | ug/kg | ND                 | 1830        | 1860        | 1530  | 1510      | 83         | 82       | 10-127    | 1            | 20  |         |      |
| 2-Chlorophenol             | ug/kg | ND                 | 1830        | 1860        | 1420  | 1510      | 77         | 81       | 17-107    | 6            | 20  |         |      |
| 2-Methylnaphthalene        | ug/kg | ND                 | 1830        | 1860        | 1260  | 1290      | 69         | 70       | 20-120    | 2            | 20  |         |      |
| 4-Chloro-3-methylphenol    | ug/kg | ND                 | 1830        | 1860        | 1550  | 1640      | 84         | 88       | 22-117    | 5            | 20  |         |      |
| 4-Nitrophenol              | ug/kg | ND                 | 1830        | 1860        | <1770 | <1780     | 75         | 75       | 10-131    |              | 20  |         |      |
| Acenaphthene               | ug/kg | ND                 | 1830        | 1860        | 1530  | 1490      | 83         | 80       | 19-115    | 3            | 20  |         |      |
| Acenaphthylene             | ug/kg | ND                 | 1830        | 1860        | 1450  | 1490      | 79         | 80       | 11-122    | 2            | 20  |         |      |
| Anthracene                 | ug/kg | ND                 | 1830        | 1860        | 1500  | 1460      | 82         | 78       | 10-133    | 3            | 20  |         |      |
| Benzo(a)anthracene         | ug/kg | ND                 | 1830        | 1860        | 1530  | 1540      | 83         | 83       | 10-137    | 1            | 20  |         |      |
| Benzo(a)pyrene             | ug/kg | ND                 | 1830        | 1860        | 1610  | 1520      | 88         | 82       | 10-132    | 6            | 20  |         |      |
| Benzo(b)fluoranthene       | ug/kg | ND                 | 1830        | 1860        | 2480  | 1690      | 135        | 91       | 10-134    | 38           | 20  | M1,R1   |      |
| Benzo(g,h,i)perylene       | ug/kg | ND                 | 1830        | 1860        | 1340  | 1380      | 73         | 75       | 10-138    | 3            | 20  |         |      |
| Benzo(k)fluoranthene       | ug/kg | ND                 | 1830        | 1860        | 2230  | 1520      | 121        | 82       | 10-140    | 38           | 20  | R1      |      |
| Chrysene                   | ug/kg | ND                 | 1830        | 1860        | 1500  | 1500      | 82         | 81       | 10-150    | 0            | 20  |         |      |
| Dibenz(a,h)anthracene      | ug/kg | ND                 | 1830        | 1860        | 1380  | 1380      | 75         | 74       | 10-126    | 0            | 20  |         |      |
| Fluoranthene               | ug/kg | ND                 | 1830        | 1860        | 2390  | 1510      | 130        | 81       | 10-128    | 45           | 20  | M0,R1   |      |
| Fluorene                   | ug/kg | ND                 | 1830        | 1860        | 1470  | 1550      | 80         | 84       | 12-127    | 5            | 20  |         |      |
| Indeno(1,2,3-cd)pyrene     | ug/kg | ND                 | 1830        | 1860        | 1360  | 1370      | 74         | 74       | 10-125    | 1            | 20  |         |      |
| N-Nitroso-di-n-propylamine | ug/kg | ND                 | 1830        | 1860        | 1740  | 1860      | 94         | 100      | 23-101    | 7            | 20  |         |      |
| Naphthalene                | ug/kg | ND                 | 1830        | 1860        | 1400  | 1420      | 76         | 77       | 12-120    | 2            | 20  |         |      |
| Pentachlorophenol          | ug/kg | ND                 | 1830        | 1860        | <1620 | <1640     | 76         | 71       | 10-112    |              | 20  |         |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

| Parameter                | Units | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2625313 |                      | 2625314               |              | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | RPD | Max<br>RPD | Qual |
|--------------------------|-------|--|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
|                          |       | 50259803013<br>Result                          | MS<br>Spike<br>Conc. | MSD<br>Spike<br>Conc. | MS<br>Result |              |               |             |              |                 |     |            |      |
| Phenanthrene             | ug/kg | ND   | 1830                 | 1860                  | 1510         | 1480         | 82            | 80          | 10-125       | 2               | 20  |            |      |
| Phenol                   | ug/kg | ND   | 1830                 | 1860                  | 1320         | 1350         | 72            | 73          | 22-105       | 2               | 20  |            |      |
| Pyrene                   | ug/kg | ND   | 1830                 | 1860                  | 1640         | 2360         | 89            | 127         | 10-146       | 36              | 20  | R1         |      |
| 2,4,6-Tribromophenol (S) | %     |  |                      |                       |              |              | 78            | 64          | 20-109       |                 |     |            |      |
| 2-Fluorobiphenyl (S)     | %     |  |                      |                       |              |              | 96            | 79          | 36-91        |                 |     | S0         |      |
| 2-Fluorophenol (S)       | %     |  |                      |                       |              |              | 75            | 77          | 24-95        |                 |     |            |      |
| Nitrobenzene-d5 (S)      | %     |  |                      |                       |              |              | 78            | 85          | 26-96        |                 |     |            |      |
| p-Terphenyl-d14 (S)      | %     |  |                      |                       |              |              | 161           | 95          | 27-117       |                 |     | S0         |      |
| Phenol-d5 (S)            | %     |  |                      |                       |              |              | 75            | 78          | 32-93        |                 |     |            |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

QC Batch: 569491 Analysis Method: EPA 8270  
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave Short Spike  
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50260268009, 50260268013

METHOD BLANK: 2627633 Matrix: Solid

Associated Lab Samples: 50260268009, 50260268013

| Parameter                    | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|------------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2,4-Trichlorobenzene       | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 1,2-Diphenylhydrazine        | ug/kg | <1580        | 1580            | 1580 | 06/29/20 22:54 |            |
| 2,4,5-Trichlorophenol        | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 2,4,6-Trichlorophenol        | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 2,4-Dichlorophenol           | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 2,4-Dimethylphenol           | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 2,4-Dinitrophenol            | ug/kg | <1580        | 1580            | 1580 | 06/29/20 22:54 |            |
| 2,4-Dinitrotoluene           | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 2,6-Dinitrotoluene           | ug/kg | <87.3        | 326             | 87.3 | 06/29/20 22:54 |            |
| 2-Chloronaphthalene          | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 2-Chlorophenol               | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 2-Methylnaphthalene          | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 2-Methylphenol(o-Cresol)     | ug/kg | <987         | 987             | 987  | 06/29/20 22:54 |            |
| 2-Nitroaniline               | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 2-Nitrophenol                | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 3&4-Methylphenol(m&p Cresol) | ug/kg | <987         | 987             | 987  | 06/29/20 22:54 |            |
| 3-Nitroaniline               | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 4,6-Dinitro-2-methylphenol   | ug/kg | <819         | 819             | 819  | 06/29/20 22:54 |            |
| 4-Bromophenylphenyl ether    | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 4-Chloro-3-methylphenol      | ug/kg | <276         | 326             | 276  | 06/29/20 22:54 |            |
| 4-Chlorophenylphenyl ether   | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 4-Nitroaniline               | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 4-Nitrophenol                | ug/kg | <1580        | 1580            | 1580 | 06/29/20 22:54 |            |
| Acenaphthene                 | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Acenaphthylene               | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Anthracene                   | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Benzo(a)anthracene           | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Benzo(a)pyrene               | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Benzo(b)fluoranthene         | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Benzo(g,h,i)perylene         | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Benzo(k)fluoranthene         | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| bis(2-Chloroethoxy)methane   | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| bis(2-Chloroethyl) ether     | ug/kg | <158         | 326             | 158  | 06/29/20 22:54 |            |
| bis(2-Chloroisopropyl) ether | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| bis(2-Ethylhexyl)phthalate   | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Butylbenzylphthalate         | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Carbazole                    | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Chrysene                     | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Di-n-butylphthalate          | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Di-n-octylphthalate          | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

METHOD BLANK: 2627633 Matrix: Solid

Associated Lab Samples: 50260268009, 50260268013

| Parameter                  | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|----------------------------|-------|--------------|-----------------|------|----------------|------------|
| Dibenz(a,h)anthracene      | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Dibenzofuran               | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Diethylphthalate           | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Dimethylphthalate          | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Fluoranthene               | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Fluorene                   | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Hexachloro-1,3-butadiene   | ug/kg | <94.7        | 326             | 94.7 | 06/29/20 22:54 |            |
| Hexachlorobenzene          | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Hexachlorocyclopentadiene  | ug/kg | <987         | 987             | 987  | 06/29/20 22:54 |            |
| Hexachloroethane           | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Indeno(1,2,3-cd)pyrene     | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Isophorone                 | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| N-Nitroso-di-n-propylamine | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| N-Nitrosodimethylamine     | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| N-Nitrosodiphenylamine     | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Naphthalene                | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Nitrobenzene               | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Pentachlorophenol          | ug/kg | <1450        | 1580            | 1450 | 06/29/20 22:54 |            |
| Phenanthrene               | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Phenol                     | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| Pyrene                     | ug/kg | <326         | 326             | 326  | 06/29/20 22:54 |            |
| 2,4,6-Tribromophenol (S)   | %     | 82           | 20-109          |      | 06/29/20 22:54 |            |
| 2-Fluorobiphenyl (S)       | %     | 79           | 36-91           |      | 06/29/20 22:54 |            |
| 2-Fluorophenol (S)         | %     | 84           | 24-95           |      | 06/29/20 22:54 |            |
| Nitrobenzene-d5 (S)        | %     | 77           | 26-96           |      | 06/29/20 22:54 |            |
| p-Terphenyl-d14 (S)        | %     | 108          | 27-117          |      | 06/29/20 22:54 |            |
| Phenol-d5 (S)              | %     | 84           | 32-93           |      | 06/29/20 22:54 |            |

LABORATORY CONTROL SAMPLE: 2627634

| Parameter               | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2,4-Trichlorobenzene  | ug/kg | 1590        | 1240       | 78        | 52-89        |            |
| 2,4-Dinitrotoluene      | ug/kg | 1590        | 1250       | 79        | 41-116       |            |
| 2-Chlorophenol          | ug/kg | 1590        | 1320       | 83        | 48-97        |            |
| 2-Methylnaphthalene     | ug/kg | 1590        | 1260       | 79        | 51-98        |            |
| 4-Chloro-3-methylphenol | ug/kg | 1590        | 1450       | 92        | 51-108       |            |
| 4-Nitrophenol           | ug/kg | 1590        | <1520      | 85        | 42-118       |            |
| Acenaphthene            | ug/kg | 1590        | 1310       | 83        | 58-94        |            |
| Acenaphthylene          | ug/kg | 1590        | 1320       | 83        | 56-94        |            |
| Anthracene              | ug/kg | 1590        | 1340       | 85        | 59-98        |            |
| Benzo(a)anthracene      | ug/kg | 1590        | 1340       | 85        | 60-103       |            |
| Benzo(a)pyrene          | ug/kg | 1590        | 1360       | 86        | 57-96        |            |
| Benzo(b)fluoranthene    | ug/kg | 1590        | 1480       | 93        | 57-104       |            |
| Benzo(g,h,i)perylene    | ug/kg | 1590        | 1390       | 88        | 56-103       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

LABORATORY CONTROL SAMPLE: 2627634

| Parameter                  | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Benzo(k)fluoranthene       | ug/kg | 1590        | 1250       | 79        | 55-104       |            |
| Chrysene                   | ug/kg | 1590        | 1250       | 79        | 59-105       |            |
| Dibenz(a,h)anthracene      | ug/kg | 1590        | 1430       | 90        | 54-103       |            |
| Fluoranthene               | ug/kg | 1590        | 1450       | 91        | 57-107       |            |
| Fluorene                   | ug/kg | 1590        | 1370       | 86        | 58-101       |            |
| Indeno(1,2,3-cd)pyrene     | ug/kg | 1590        | 1380       | 87        | 54-104       |            |
| N-Nitroso-di-n-propylamine | ug/kg | 1590        | 1430       | 90        | 43-94        |            |
| Naphthalene                | ug/kg | 1590        | 1220       | 77        | 51-90        |            |
| Pentachlorophenol          | ug/kg | 1590        | <1400      | 78        | 24-118       |            |
| Phenanthrene               | ug/kg | 1590        | 1370       | 86        | 60-96        |            |
| Phenol                     | ug/kg | 1590        | 1330       | 84        | 44-101       |            |
| Pyrene                     | ug/kg | 1590        | 1340       | 84        | 59-108       |            |
| 2,4,6-Tribromophenol (S)   | %     |             |            | 93        | 20-109       |            |
| 2-Fluorobiphenyl (S)       | %     |             |            | 77        | 36-91        |            |
| 2-Fluorophenol (S)         | %     |             |            | 83        | 24-95        |            |
| Nitrobenzene-d5 (S)        | %     |             |            | 83        | 26-96        |            |
| p-Terphenyl-d14 (S)        | %     |             |            | 110       | 27-117       |            |
| Phenol-d5 (S)              | %     |             |            | 87        | 32-93        |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2627635 2627636

| Parameter                  | Units | MS 50260268013 |             | MSD 2627635 |        | MS 2627636 |       | MSD 2627636 |        | % Rec Limits | Max RPD | Qual |
|----------------------------|-------|----------------|-------------|-------------|--------|------------|-------|-------------|--------|--------------|---------|------|
|                            |       | Result         | Spike Conc. | Spike Conc. | Result | Result     | % Rec | % Rec       |        |              |         |      |
| 1,2,4-Trichlorobenzene     | ug/kg | <422           | 2120        | 1990        | 1340   | 1230       | 63    | 62          | 30-96  | 9            | 20      |      |
| 2,4-Dinitrotoluene         | ug/kg | <422           | 2120        | 1990        | 1210   | 1140       | 57    | 58          | 10-127 | 6            | 20      |      |
| 2-Chlorophenol             | ug/kg | <422           | 2120        | 1990        | 1470   | 1360       | 70    | 68          | 17-107 | 8            | 20      |      |
| 2-Methylnaphthalene        | ug/kg | <422           | 2120        | 1990        | 1230   | 1150       | 58    | 58          | 20-120 | 7            | 20      |      |
| 4-Chloro-3-methylphenol    | ug/kg | <358           | 2120        | 1990        | 1450   | 1450       | 68    | 73          | 22-117 | 1            | 20      |      |
| 4-Nitrophenol              | ug/kg | <2050          | 2120        | 1990        | <2030  | <1910      | 67    | 68          | 10-131 |              | 20      |      |
| Acenaphthene               | ug/kg | <422           | 2120        | 1990        | 1160   | 1120       | 55    | 57          | 19-115 | 3            | 20      |      |
| Acenaphthylene             | ug/kg | <422           | 2120        | 1990        | 1210   | 1140       | 57    | 58          | 11-122 | 6            | 20      |      |
| Anthracene                 | ug/kg | <422           | 2120        | 1990        | 1110   | 1120       | 52    | 56          | 10-133 | 1            | 20      |      |
| Benzo(a)anthracene         | ug/kg | <422           | 2120        | 1990        | 1200   | 1110       | 57    | 56          | 10-137 | 8            | 20      |      |
| Benzo(a)pyrene             | ug/kg | <422           | 2120        | 1990        | 1110   | 998        | 53    | 50          | 10-132 | 11           | 20      |      |
| Benzo(b)fluoranthene       | ug/kg | <422           | 2120        | 1990        | 1180   | 958        | 55    | 48          | 10-134 | 20           | 20      |      |
| Benzo(g,h,i)perylene       | ug/kg | <422           | 2120        | 1990        | 1070   | 951        | 51    | 48          | 10-138 | 12           | 20      |      |
| Benzo(k)fluoranthene       | ug/kg | <422           | 2120        | 1990        | 1050   | 1070       | 49    | 54          | 10-140 | 2            | 20      |      |
| Chrysene                   | ug/kg | <422           | 2120        | 1990        | 1230   | 1080       | 58    | 54          | 10-150 | 13           | 20      |      |
| Dibenz(a,h)anthracene      | ug/kg | <422           | 2120        | 1990        | 1150   | 994        | 54    | 50          | 10-126 | 15           | 20      |      |
| Fluoranthene               | ug/kg | <422           | 2120        | 1990        | 1520   | 1390       | 54    | 52          | 10-128 | 9            | 20      |      |
| Fluorene                   | ug/kg | <422           | 2120        | 1990        | 1180   | 1160       | 56    | 58          | 12-127 | 2            | 20      |      |
| Indeno(1,2,3-cd)pyrene     | ug/kg | <422           | 2120        | 1990        | 1010   | 920        | 48    | 46          | 10-125 | 10           | 20      |      |
| N-Nitroso-di-n-propylamine | ug/kg | <422           | 2120        | 1990        | 1590   | 1480       | 75    | 74          | 23-101 | 8            | 20      |      |
| Naphthalene                | ug/kg | <422           | 2120        | 1990        | 1340   | 1220       | 63    | 61          | 12-120 | 10           | 20      |      |
| Pentachlorophenol          | ug/kg | <1880          | 2120        | 1990        | <1870  | <1750      | 55    | 60          | 10-112 |              | 20      |      |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

| Parameter                | Units | 2627635               |                      | 2627636               |              | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | RPD | Max<br>RPD | Qual |
|--------------------------|-------|-----------------------|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
|                          |       | 50260268013<br>Result | MS<br>Spike<br>Conc. | MSD<br>Spike<br>Conc. | MS<br>Result |              |               |             |              |                 |     |            |      |
| Phenanthrene             | ug/kg | <422                  | 2120                 | 1990                  | 1340         | 1320         | 53            | 55          | 10-125       | 1               | 20  |            |      |
| Phenol                   | ug/kg | <422                  | 2120                 | 1990                  | 1420         | 1380         | 67            | 70          | 22-105       | 2               | 20  |            |      |
| Pyrene                   | ug/kg | <422                  | 2120                 | 1990                  | 1440         | 1330         | 54            | 52          | 10-146       | 8               | 20  |            |      |
| 2,4,6-Tribromophenol (S) | %     |                       |                      |                       |              |              | 68            | 71          | 20-109       |                 |     |            |      |
| 2-Fluorobiphenyl (S)     | %     |                       |                      |                       |              |              | 59            | 59          | 36-91        |                 |     |            |      |
| 2-Fluorophenol (S)       | %     |                       |                      |                       |              |              | 69            | 73          | 24-95        |                 |     |            |      |
| Nitrobenzene-d5 (S)      | %     |                       |                      |                       |              |              | 68            | 67          | 26-96        |                 |     |            |      |
| p-Terphenyl-d14 (S)      | %     |                       |                      |                       |              |              | 67            | 69          | 27-117       |                 |     |            |      |
| Phenol-d5 (S)            | %     |                       |                      |                       |              |              | 70            | 73          | 32-93        |                 |     |            |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

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|                  |          |                       |   |
|------------------|----------|-----------------------|---|
| QC Batch:        | 568683   | Analysis Method:      | SM 2540G                                |
| QC Batch Method: | SM 2540G | Analysis Description: | Dry Weight/Percent Moisture             |
|                  |          | Laboratory:           | Pace Analytical Services - Indianapolis |

Associated Lab Samples: 50260268001, 50260268002, 50260268003, 50260268004, 50260268005, 50260268006

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SAMPLE DUPLICATE: 2623545

| Parameter        | Units | 50260268001<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 9.0                   | 8.6           | 5   | 5          |            |

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SAMPLE DUPLICATE: 2623546

| Parameter        | Units | 50260171001<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 12.7                  | 13.4          | 5   | 5          |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

QC Batch: 568712

Analysis Method: SM 2540G

QC Batch Method: SM 2540G

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50260268007, 50260268008, 50260268009, 50260268010, 50260268011, 50260268012, 50260268013, 50260268014, 50260268015

SAMPLE DUPLICATE: 2623658

| Parameter        | Units | 50260268007<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 11.8                  | 12.6          | 7   | 5          | R1         |

SAMPLE DUPLICATE: 2623659

| Parameter        | Units | 50260285007<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 60.7                  | 58.2          | 4   | 5          |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

|                            |   |
|----------------------------|---|
| QC Batch: 570566           | Analysis Method: EPA 7196A                          |
| QC Batch Method: EPA 3060A | Analysis Description: 7196 Chromium, Hexavalent     |
|                            | Laboratory: Pace Analytical Services - Indianapolis |

Associated Lab Samples: 50260268005

METHOD BLANK: 2632291 Matrix: Solid

Associated Lab Samples: 50260268005

| Parameter            | Units | Blank Result | Reporting Limit | MDL | Analyzed       | Qualifiers |
|----------------------|-------|--------------|-----------------|-----|----------------|------------|
| Chromium, Hexavalent | mg/kg | <2.0         | 2.0             | 2.0 | 07/07/20 16:14 |            |

LABORATORY CONTROL SAMPLE: 2632292

| Parameter            | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|-------------|------------|-----------|--------------|------------|
| Chromium, Hexavalent | mg/kg | 969         | 898        | 93        | 80-120       |            |

MATRIX SPIKE SAMPLE: 2632294

| Parameter            | Units | 50261280004 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Chromium, Hexavalent | mg/kg | ND                 | 1090        | 208       | 19       | 75-125       | 1d,M0      |

MATRIX SPIKE SAMPLE: 2632295

| Parameter            | Units | 50261280004 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Chromium, Hexavalent | mg/kg | ND                 | 42.3        | <10.6     | -1       | 75-125       | 1d,M0      |

SAMPLE DUPLICATE: 2632293

| Parameter            | Units | 50260268005 Result | Dup Result | RPD | Max RPD | Qualifiers |
|----------------------|-------|--------------------|------------|-----|---------|------------|
| Chromium, Hexavalent | mg/kg | <2.1               | <2.1       |     | 20      |            |

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## QUALIFIERS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.  
 ND - Not Detected at or above adjusted reporting limit.  
 TNTC - Too Numerous To Count  
 J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
 MDL - Adjusted Method Detection Limit.  
 PQL - Practical Quantitation Limit.  
 RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.  
 S - Surrogate  
 1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.  
 Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.  
 LCS(D) - Laboratory Control Sample (Duplicate)  
 MS(D) - Matrix Spike (Duplicate)  
 DUP - Sample Duplicate  
 RPD - Relative Percent Difference  
 NC - Not Calculable.  
 SG - Silica Gel - Clean-Up  
 U - Indicates the compound was analyzed for, but not detected.  
 N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.  
 Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
 TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

1d Redox (202 mV) and pH (7.85) values indicate a naturally reducing matrix. This accounts for the poor recovery values on the sample per method Eh/pH phase diagram.  
 D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.  
 ED Due to the extract's physical characteristics, the analysis was performed at dilution.  
 L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.  
 L5 LCS recovery exceeded QC limits. Batch accepted based on matrix spike recovery within LCS limits.  
 M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.  
 M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.  
 M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.  
 N The reported TIC has an 85% or higher match on a mass spectral library search.  
 N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.  
 P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.  
 R1 RPD value was outside control limits.  
 S0 Surrogate recovery outside laboratory control limits.  
 S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.  
 S4 Surrogate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

| Lab ID      | Sample ID         | QC Batch Method         | QC Batch | Analytical Method | Analytical Batch |
|-------------|-------------------|-------------------------|----------|-------------------|------------------|
| 50260268001 | MW-122 (4-5')     | EPA 8015 Alcohol-Glycol | 568440   |                   |                  |
| 50260268002 | MW-123 (4-5')     | EPA 8015 Alcohol-Glycol | 568440   |                   |                  |
| 50260268003 | MW-124 (4-5')     | EPA 8015 Alcohol-Glycol | 568440   |                   |                  |
| 50260268004 | MW-125 (4-5')     | EPA 8015 Alcohol-Glycol | 568440   |                   |                  |
| 50260268005 | MW-126 (4-5')     | EPA 8015 Alcohol-Glycol | 568440   |                   |                  |
| 50260268006 | MW-126 (7.5-8.5') | EPA 8015 Alcohol-Glycol | 568440   |                   |                  |
| 50260268007 | MW-127 (6-7')     | EPA 8015 Alcohol-Glycol | 568440   |                   |                  |
| 50260268008 | MW-127 (10-11')   | EPA 8015 Alcohol-Glycol | 568440   |                   |                  |
| 50260268009 | MW-128 (4-5')     | EPA 8015 Alcohol-Glycol | 568440   |                   |                  |
| 50260268010 | MW-128 (8-9')     | EPA 8015 Alcohol-Glycol | 568440   |                   |                  |
| 50260268011 | MW-129 (3-4')     | EPA 8015 Alcohol-Glycol | 568440   |                   |                  |
| 50260268012 | MW-130 (4-5')     | EPA 8015 Alcohol-Glycol | 568440   |                   |                  |
| 50260268013 | MW-131 (2-3')     | EPA 8015 Alcohol-Glycol | 568440   |                   |                  |
| 50260268014 | Dup. 1            | EPA 8015 Alcohol-Glycol | 568440   |                   |                  |
| 50260268015 | Dup. 2            | EPA 8015 Alcohol-Glycol | 568440   |                   |                  |
| 50260268002 | MW-123 (4-5')     | EPA 3546                | 569057   | EPA 8082          | 569164           |
| 50260268004 | MW-125 (4-5')     | EPA 3546                | 569057   | EPA 8082          | 569164           |
| 50260268008 | MW-127 (10-11')   | EPA 3546                | 569057   | EPA 8082          | 569164           |
| 50260268009 | MW-128 (4-5')     | EPA 3546                | 569057   | EPA 8082          | 569164           |
| 50260268012 | MW-130 (4-5')     | EPA 3546                | 569057   | EPA 8082          | 569164           |
| 50260268001 | MW-122 (4-5')     | EPA 3050                | 568327   | EPA 6010          | 569711           |
| 50260268002 | MW-123 (4-5')     | EPA 3050                | 568327   | EPA 6010          | 569711           |
| 50260268003 | MW-124 (4-5')     | EPA 3050                | 568327   | EPA 6010          | 569711           |
| 50260268004 | MW-125 (4-5')     | EPA 3050                | 568327   | EPA 6010          | 569711           |
| 50260268005 | MW-126 (4-5')     | EPA 3050                | 568327   | EPA 6010          | 569711           |
| 50260268006 | MW-126 (7.5-8.5') | EPA 3050                | 568327   | EPA 6010          | 569711           |
| 50260268007 | MW-127 (6-7')     | EPA 3050                | 568327   | EPA 6010          | 569711           |
| 50260268008 | MW-127 (10-11')   | EPA 3050                | 568327   | EPA 6010          | 569711           |
| 50260268009 | MW-128 (4-5')     | EPA 3050                | 568327   | EPA 6010          | 569711           |
| 50260268010 | MW-128 (8-9')     | EPA 3050                | 568327   | EPA 6010          | 569711           |
| 50260268011 | MW-129 (3-4')     | EPA 3050                | 568327   | EPA 6010          | 569711           |
| 50260268012 | MW-130 (4-5')     | EPA 3050                | 568327   | EPA 6010          | 569711           |
| 50260268013 | MW-131 (2-3')     | EPA 3050                | 568327   | EPA 6010          | 569711           |
| 50260268014 | Dup. 1            | EPA 3050                | 568327   | EPA 6010          | 569711           |
| 50260268015 | Dup. 2            | EPA 3050                | 568327   | EPA 6010          | 569711           |
| 50260268001 | MW-122 (4-5')     | EPA 3050B               | 568592   | EPA 6020          | 569073           |
| 50260268002 | MW-123 (4-5')     | EPA 3050B               | 568592   | EPA 6020          | 569073           |
| 50260268003 | MW-124 (4-5')     | EPA 3050B               | 568592   | EPA 6020          | 569073           |
| 50260268004 | MW-125 (4-5')     | EPA 3050B               | 568592   | EPA 6020          | 569073           |
| 50260268005 | MW-126 (4-5')     | EPA 3050B               | 568592   | EPA 6020          | 569073           |
| 50260268006 | MW-126 (7.5-8.5') | EPA 3050B               | 568592   | EPA 6020          | 569073           |
| 50260268007 | MW-127 (6-7')     | EPA 3050B               | 568592   | EPA 6020          | 569073           |
| 50260268008 | MW-127 (10-11')   | EPA 3050B               | 568592   | EPA 6020          | 569073           |
| 50260268009 | MW-128 (4-5')     | EPA 3050B               | 568592   | EPA 6020          | 569073           |
| 50260268010 | MW-128 (8-9')     | EPA 3050B               | 568592   | EPA 6020          | 569073           |
| 50260268011 | MW-129 (3-4')     | EPA 3050B               | 568592   | EPA 6020          | 569073           |
| 50260268012 | MW-130 (4-5')     | EPA 3050B               | 568592   | EPA 6020          | 569073           |

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260268

| Lab ID      | Sample ID         | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-------------------|-----------------|----------|-------------------|------------------|
| 50260268013 | MW-131 (2-3')     | EPA 3050B       | 568592   | EPA 6020          | 569073           |
| 50260268014 | Dup. 1            | EPA 3050B       | 568592   | EPA 6020          | 569073           |
| 50260268015 | Dup. 2            | EPA 3050B       | 568592   | EPA 6020          | 569073           |
| 50260268001 | MW-122 (4-5')     | EPA 7471        | 569181   | EPA 7471          | 569347           |
| 50260268002 | MW-123 (4-5')     | EPA 7471        | 569181   | EPA 7471          | 569347           |
| 50260268003 | MW-124 (4-5')     | EPA 7471        | 569181   | EPA 7471          | 569347           |
| 50260268004 | MW-125 (4-5')     | EPA 7471        | 569181   | EPA 7471          | 569347           |
| 50260268005 | MW-126 (4-5')     | EPA 7471        | 569181   | EPA 7471          | 569347           |
| 50260268006 | MW-126 (7.5-8.5') | EPA 7471        | 569181   | EPA 7471          | 569347           |
| 50260268007 | MW-127 (6-7')     | EPA 7471        | 569181   | EPA 7471          | 569347           |
| 50260268008 | MW-127 (10-11')   | EPA 7471        | 569181   | EPA 7471          | 569347           |
| 50260268009 | MW-128 (4-5')     | EPA 7471        | 569181   | EPA 7471          | 569347           |
| 50260268010 | MW-128 (8-9')     | EPA 7471        | 569181   | EPA 7471          | 569347           |
| 50260268011 | MW-129 (3-4')     | EPA 7471        | 569181   | EPA 7471          | 569347           |
| 50260268012 | MW-130 (4-5')     | EPA 7471        | 569181   | EPA 7471          | 569347           |
| 50260268013 | MW-131 (2-3')     | EPA 7471        | 569181   | EPA 7471          | 569347           |
| 50260268014 | Dup. 1            | EPA 7471        | 569181   | EPA 7471          | 569347           |
| 50260268015 | Dup. 2            | EPA 7471        | 569181   | EPA 7471          | 569347           |
| 50260268001 | MW-122 (4-5')     | EPA 3546        | 568613   | EPA 8270          | 568826           |
| 50260268002 | MW-123 (4-5')     | EPA 3546        | 568613   | EPA 8270          | 568826           |
| 50260268003 | MW-124 (4-5')     | EPA 3546        | 568613   | EPA 8270          | 568826           |
| 50260268004 | MW-125 (4-5')     | EPA 3546        | 568613   | EPA 8270          | 568826           |
| 50260268005 | MW-126 (4-5')     | EPA 3546        | 568613   | EPA 8270          | 568826           |
| 50260268006 | MW-126 (7.5-8.5') | EPA 3546        | 568613   | EPA 8270          | 568826           |
| 50260268007 | MW-127 (6-7')     | EPA 3546        | 568613   | EPA 8270          | 568826           |
| 50260268008 | MW-127 (10-11')   | EPA 3546        | 568613   | EPA 8270          | 568826           |
| 50260268009 | MW-128 (4-5')     | EPA 3546        | 569491   | EPA 8270          | 569827           |
| 50260268010 | MW-128 (8-9')     | EPA 3546        | 568613   | EPA 8270          | 568826           |
| 50260268011 | MW-129 (3-4')     | EPA 3546        | 568613   | EPA 8270          | 568826           |
| 50260268012 | MW-130 (4-5')     | EPA 3546        | 569058   | EPA 8270          | 569235           |
| 50260268013 | MW-131 (2-3')     | EPA 3546        | 569491   | EPA 8270          | 569827           |
| 50260268014 | Dup. 1            | EPA 3546        | 569058   | EPA 8270          | 569235           |
| 50260268015 | Dup. 2            | EPA 3546        | 569058   | EPA 8270          | 569235           |
| 50260268001 | MW-122 (4-5')     | EPA 8260        | 568681   |                   |                  |
| 50260268002 | MW-123 (4-5')     | EPA 8260        | 568681   |                   |                  |
| 50260268003 | MW-124 (4-5')     | EPA 8260        | 568681   |                   |                  |
| 50260268004 | MW-125 (4-5')     | EPA 8260        | 568681   |                   |                  |
| 50260268005 | MW-126 (4-5')     | EPA 8260        | 568681   |                   |                  |
| 50260268006 | MW-126 (7.5-8.5') | EPA 8260        | 568681   |                   |                  |
| 50260268007 | MW-127 (6-7')     | EPA 8260        | 568681   |                   |                  |
| 50260268008 | MW-127 (10-11')   | EPA 8260        | 568681   |                   |                  |
| 50260268009 | MW-128 (4-5')     | EPA 8260        | 568681   |                   |                  |
| 50260268010 | MW-128 (8-9')     | EPA 8260        | 568681   |                   |                  |
| 50260268011 | MW-129 (3-4')     | EPA 8260        | 568681   |                   |                  |
| 50260268012 | MW-130 (4-5')     | EPA 8260        | 568681   |                   |                  |

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260268

| Lab ID      | Sample ID         | QC Batch Method                | QC Batch | Analytical Method | Analytical Batch |
|-------------|-------------------|--------------------------------|----------|-------------------|------------------|
| 50260268013 | MW-131 (2-3')     | EPA 8260                       | 568681   |                   |                  |
| 50260268014 | Dup. 1            | EPA 8260                       | 568681   |                   |                  |
| 50260268015 | Dup. 2            | EPA 8260                       | 568681   |                   |                  |
| 50260268016 | Trip Blank        | EPA 8260                       | 568681   |                   |                  |
| 50260268017 | Trip Blank        | EPA 8260                       | 568681   |                   |                  |
| 50260268018 | Field Blank       | EPA 8260                       | 568677   |                   |                  |
| 50260268001 | MW-122 (4-5')     | SM 2540G                       | 568683   |                   |                  |
| 50260268002 | MW-123 (4-5')     | SM 2540G                       | 568683   |                   |                  |
| 50260268003 | MW-124 (4-5')     | SM 2540G                       | 568683   |                   |                  |
| 50260268004 | MW-125 (4-5')     | SM 2540G                       | 568683   |                   |                  |
| 50260268005 | MW-126 (4-5')     | SM 2540G                       | 568683   |                   |                  |
| 50260268006 | MW-126 (7.5-8.5') | SM 2540G                       | 568683   |                   |                  |
| 50260268007 | MW-127 (6-7')     | SM 2540G                       | 568712   |                   |                  |
| 50260268008 | MW-127 (10-11')   | SM 2540G                       | 568712   |                   |                  |
| 50260268009 | MW-128 (4-5')     | SM 2540G                       | 568712   |                   |                  |
| 50260268010 | MW-128 (8-9')     | SM 2540G                       | 568712   |                   |                  |
| 50260268011 | MW-129 (3-4')     | SM 2540G                       | 568712   |                   |                  |
| 50260268012 | MW-130 (4-5')     | SM 2540G                       | 568712   |                   |                  |
| 50260268013 | MW-131 (2-3')     | SM 2540G                       | 568712   |                   |                  |
| 50260268014 | Dup. 1            | SM 2540G                       | 568712   |                   |                  |
| 50260268015 | Dup. 2            | SM 2540G                       | 568712   |                   |                  |
| 50260268005 | MW-126 (4-5')     | EPA 3060A                      | 570566   | EPA 7196A         | 570880           |
| 50260268005 | MW-126 (4-5')     | Trivalent Chromium Calculation | 571475   |                   |                  |

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## Sample Conditions Upon Receipt Form (SCUR)

|  |  |  |  |  |           |
|--|--|--|--|--|-----------|
| Date/Time: <u>8-18-20 1600</u>   |  | Evaluated by: <u>AWS</u>                       |  | <b>Affix Workorder/Login Label Here or List Pace Workorder Number</b><br><br><span style="font-size: 2em; font-weight: bold;">5026 0268</span> |           |
| Client: <u>DETROIT AXLE-ATC</u>  |  | Profile ID:                                    |  |  |           |
| Project Manager: <u>BSH</u>  |  | Due Date:                                      |  |  |           |
| Rush TAT Requested: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>  |  |  |  |  |           |
| Lab Notified of Rush or Short Holds: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>   |  |  | Non Conformance Form Required: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> |  |           |
| Samples Received Via: FedEx <input checked="" type="checkbox"/> UPS <input type="checkbox"/> Client <input type="checkbox"/> Pace Courier <input type="checkbox"/> Other: _____                                    |  |  |  |  | Comments: |
| Custody Seals Present and Intact:  |  | YES  | NO   | <input checked="" type="radio"/> N/A   |           |
| Received Sample Information Form(s): Drinking Waters Only  |  | YES  | NO   | <input checked="" type="radio"/> N/A   |           |
| USDA Regulated Soils: (AL, AR, CA, FL, GA, ID, LA, MS, NM, NY, NC, OK, OR, SC, TN, TX, WA or Puerto Rico)  |  | YES  | NO   | <input checked="" type="radio"/> N/A   |           |
| Short Holds Present (< 72 Hours):  |  | YES  | NO <input checked="" type="checkbox"/>   |  |           |
| Samples Received in Hold:  |  | YES <input checked="" type="checkbox"/>        | NO   |  |           |
| Custody Signatures Present:  |  | YES <input checked="" type="checkbox"/>        | NO   |  |           |
| Collector Signature Present:   |  | YES <input checked="" type="checkbox"/>        | NO   |  |           |
| Packing Material Used:   |  | YES <input checked="" type="checkbox"/>        | NO   |  |           |
| Samples Collected Today and On Ice:  |  | YES  | NO   | <input checked="" type="radio"/> N/A   |           |
| IR Gun #: <input checked="" type="radio"/> 281   |  | Digital Thermometer #: 282 283                 |  |  |           |
| Ice Type: WET Bagged / WET Loose <input checked="" type="checkbox"/> BLUE NONE   |  | 1. Cooler Temp Upon Receipt: <u>2.5/3.0</u> °C |  |  |           |
| Ice Location: TOP BOTTOM MIDDLE <input checked="" type="checkbox"/> DISPERSED  |  | Temp should be 0-6°C (Initial/Corrected)       |  |  |           |
| Temp Blank Received:   |  | YES <input checked="" type="checkbox"/>        | NO   |  |           |
| Containers Intact:   |  | YES <input checked="" type="checkbox"/>        | NO   |  |           |
| Correct Containers:  |  | YES <input checked="" type="checkbox"/>        | NO   |  |           |
| Sufficient Volume:   |  | YES <input checked="" type="checkbox"/>        | NO   |  |           |
| Sample pH Acceptable: All containers needing preservation are found to be in compliance with EPA recommendation. Exceptions are VOA, coliform, LLHg, O&G, or any container with a septum cap or preserved with HCl |  | YES  | NO   | <input checked="" type="radio"/> N/A   |           |
| Residual Chlorine Absent: (SVOC/Pest 625, PCB 608, Total/Amenable/Available Cyanide)   |  | YES  | NO   | <input checked="" type="radio"/> N/A   |           |
| VOA Headspace Acceptable (<6mm):   |  | YES  | NO   | <input checked="" type="radio"/> N/A   |           |
| Trip Blank Received: HCl MeOH TSP OTHER  |  | YES  | NO <input checked="" type="checkbox"/>   |  |           |
| Comments:<br><br><span style="font-size: 1.5em; font-weight: bold;">N/A</span>   |  | 2. Cooler Temp Upon Receipt: _____ °C          |  |  |           |
|  |  | 3. Cooler Temp Upon Receipt: _____ °C          |  |  |           |
|  |  | 4. Cooler Temp Upon Receipt: _____ °C          |  |  |           |
|  |  |  |  |  |           |

September 11, 2020

Ryann Scott  
ATC Group Services - Novi  
46555 Humboldt Drive  
Suite 100  
Novi, MI 48377

RE: Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

Dear Ryann Scott:

Enclosed are the analytical results for sample(s) received by the laboratory between August 14, 2020 and August 25, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Melville

Revised Report. This report replaces the original dated 090220, it has been revised to include Mercury analysis for sample MW-133 (10-11).

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Brian Hall  
brian.hall@pacelabs.com  
(616)975-4500  
Project Manager

Enclosures

cc: AP c/o Abigail Jardine, ATC Group Services  
Michael Hauswirth, ATC Group Services  
Joshua Schuyler, ATC Group Services - Novi



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

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### **Pace Analytical Services Indianapolis**

7726 Moller Road, Indianapolis, IN 46268  
Illinois Accreditation #: 200074  
Indiana Drinking Water Laboratory #: C-49-06  
Kansas/TNI Certification #: E-10177  
Kentucky UST Agency Interest #: 80226  
Kentucky WW Laboratory ID #: 98019  
Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065  
Oklahoma Laboratory #: 9204  
Texas Certification #: T104704355  
West Virginia Certification #: 330  
Wisconsin Laboratory #: 999788130  
USDA Soil Permit #: P330-19-00257

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### **Pace Analytical Services Long Island**

575 Broad Hollow Rd, Melville, NY 11747  
New York Certification #: 10478 Primary Accrediting Body  
New Jersey Certification #: NY158  
Pennsylvania Certification #: 68-00350  
Connecticut Certification #: PH-0435

Maryland Certification #: 208  
Rhode Island Certification #: LAO00340  
Massachusetts Certification #: M-NY026  
New Hampshire Certification #: 2987

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

| Lab ID      | Sample ID        | Matrix | Date Collected | Date Received  |
|-------------|------------------|--------|----------------|----------------|
| 50264929001 | MW-133           | Water  | 08/13/20 13:14 | 08/14/20 13:50 |
| 50264929002 | MW-132           | Water  | 08/13/20 14:21 | 08/14/20 13:50 |
| 50264929003 | Dup              | Water  | 08/13/20 00:00 | 08/14/20 13:50 |
| 50264929004 | MW-132 (5.5-6.5) | Solid  | 08/12/20 10:06 | 08/14/20 13:50 |
| 50264929005 | MW-133 (3-4)     | Solid  | 08/12/20 11:03 | 08/14/20 13:50 |
| 50264929006 | MW-133 (10-11)   | Solid  | 08/12/20 11:10 | 08/14/20 13:50 |
| 50264929007 | MW-133 Composite | Solid  | 08/12/20 11:03 | 08/25/20 12:07 |

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

| Lab ID      | Sample ID        | Method                  | Analysts | Analytes Reported | Laboratory |
|-------------|------------------|-------------------------|----------|-------------------|------------|
| 50264929001 | MW-133           | EPA 6010                | KJE      | 16                | PASI-I     |
|             |                  | EPA 6020                | CAW      | 10                | PASI-I     |
|             |                  | EPA 7470                | ILP      | 1                 | PASI-I     |
|             |                  | EPA 8270 by SIM         | GRM      | 19                | PASI-I     |
|             |                  | EPA 8270                | GRM      | 48                | PASI-I     |
|             |                  | EPA 8260C SIM/5030C     | BBL      | 3                 | PASI-L     |
|             |                  | EPA 5030B/8260          | JPV      | 75                | PASI-I     |
|             |                  | EPA 9012                | NMW      | 1                 | PASI-I     |
| 50264929002 | MW-132           | EPA 8015 Alcohol-Glycol | CPH      | 3                 | PASI-I     |
|             |                  | EPA 8082                | KAV      | 10                | PASI-I     |
|             |                  | EPA 6010                | KJE      | 16                | PASI-I     |
|             |                  | EPA 6020                | CAW      | 10                | PASI-I     |
|             |                  | EPA 7470                | ILP      | 1                 | PASI-I     |
|             |                  | EPA 8270 by SIM         | GRM      | 19                | PASI-I     |
|             |                  | EPA 8270                | GRM      | 48                | PASI-I     |
|             |                  | EPA 8260C SIM/5030C     | BBL      | 3                 | PASI-L     |
| 50264929003 | Dup              | EPA 5030B/8260          | JPV      | 75                | PASI-I     |
|             |                  | EPA 9012                | NMW      | 1                 | PASI-I     |
|             |                  | EPA 8015 Alcohol-Glycol | CPH      | 3                 | PASI-I     |
|             |                  | EPA 8082                | KAV      | 10                | PASI-I     |
|             |                  | EPA 6010                | KJE      | 16                | PASI-I     |
|             |                  | EPA 6020                | CAW      | 10                | PASI-I     |
|             |                  | EPA 7470                | ILP      | 1                 | PASI-I     |
|             |                  | EPA 8270 by SIM         | GRM      | 19                | PASI-I     |
| 50264929004 | MW-132 (5.5-6.5) | EPA 8270                | GRM      | 48                | PASI-I     |
|             |                  | EPA 8260C SIM/5030C     | BBL      | 3                 | PASI-L     |
|             |                  | EPA 5030B/8260          | JPV      | 75                | PASI-I     |
|             |                  | EPA 9012                | NMW      | 1                 | PASI-I     |
|             |                  | EPA 8082                | RID      | 10                | PASI-I     |
|             |                  | EPA 6010                | JPK      | 19                | PASI-I     |
|             |                  | EPA 6020                | DMT      | 7                 | PASI-I     |
|             |                  | EPA 7471                | ILP      | 1                 | PASI-I     |
| 50264929005 | MW-133 (3-4)     | EPA 8270                | JCM      | 67                | PASI-I     |
|             |                  | EPA 8260                | JPV      | 75                | PASI-I     |
|             |                  | SM 2540G                | MMS      | 1                 | PASI-I     |
|             |                  | EPA 6010                | JPK      | 19                | PASI-I     |
|             |                  | EPA 6020                | DMT      | 7                 | PASI-I     |

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

| Lab ID             | Sample ID               | Method   | Analysts | Analytes Reported | Laboratory |
|--------------------|-------------------------|----------|----------|-------------------|------------|
|                    |                         | EPA 7471 | ILP      | 1                 | PASI-I     |
|                    |                         | EPA 8270 | JCM      | 67                | PASI-I     |
|                    |                         | EPA 8260 | JPV      | 75                | PASI-I     |
|                    |                         | SM 2540G | MMS      | 1                 | PASI-I     |
| <b>50264929006</b> | <b>MW-133 (10-11)</b>   | EPA 6010 | KJE      | 19                | PASI-I     |
|                    |                         | EPA 6020 | DMT      | 7                 | PASI-I     |
|                    |                         | EPA 7471 | ILP      | 1                 | PASI-I     |
|                    |                         | EPA 8270 | JCM      | 67                | PASI-I     |
|                    |                         | EPA 8260 | JPV      | 75                | PASI-I     |
|                    |                         | SM 2540G | SKK      | 1                 | PASI-I     |
| <b>50264929007</b> | <b>MW-133 Composite</b> | EPA 6010 | KJE      | 7                 | PASI-I     |
|                    |                         | EPA 7470 | ILP      | 1                 | PASI-I     |

PASI-I = Pace Analytical Services - Indianapolis  
PASI-L = Pace Analytical Services - Melville

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

**Sample: MW-133**      **Lab ID: 50264929001**      Collected: 08/13/20 13:14      Received: 08/14/20 13:50      Matrix: Water

| Parameters  | Results | Units | PQL  | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|------|-------|----|----------------|----------------|-----------|------|
| <b>6010 MET ICP</b>   |         |       |      |       |    |                |                |           |      |
| Analytical Method: EPA 6010    Preparation Method: EPA 3010<br>Pace Analytical Services - Indianapolis        |         |       |      |       |    |                |                |           |      |
| Arsenic   | <5.0    | ug/L  | 5.0  | 5.0   | 1  | 08/18/20 06:00 | 08/20/20 09:28 | 7440-38-2 |      |
| Barium  | <100    | ug/L  | 100  | 100   | 1  | 08/18/20 06:00 | 08/20/20 09:28 | 7440-39-3 |      |
| Boron   | 1210    | ug/L  | 300  | 300   | 1  | 08/18/20 06:00 | 08/20/20 09:28 | 7440-42-8 |      |
| Calcium   | 221000  | ug/L  | 5000 | 5000  | 5  | 08/18/20 06:00 | 08/20/20 09:55 | 7440-70-2 |      |
| Chromium  | <10.0   | ug/L  | 10.0 | 10.0  | 1  | 08/18/20 06:00 | 08/20/20 09:28 | 7440-47-3 |      |
| Cobalt  | <20.0   | ug/L  | 20.0 | 20.0  | 1  | 08/18/20 06:00 | 08/20/20 09:28 | 7440-48-4 |      |
| Copper  | <4.0    | ug/L  | 4.0  | 4.0   | 1  | 08/18/20 06:00 | 08/20/20 09:28 | 7440-50-8 |      |
| Iron  | 206     | ug/L  | 200  | 200   | 1  | 08/18/20 06:00 | 08/20/20 09:28 | 7439-89-6 |      |
| Magnesium   | 30900   | ug/L  | 1000 | 1000  | 1  | 08/18/20 06:00 | 08/20/20 09:28 | 7439-95-4 |      |
| Manganese   | 170     | ug/L  | 50.0 | 50.0  | 1  | 08/18/20 06:00 | 08/20/20 09:28 | 7439-96-5 |      |
| Molybdenum  | <50.0   | ug/L  | 50.0 | 50.0  | 1  | 08/18/20 06:00 | 08/20/20 09:28 | 7439-98-7 |      |
| Nickel  | <20.0   | ug/L  | 20.0 | 20.0  | 1  | 08/18/20 06:00 | 08/20/20 09:28 | 7440-02-0 |      |
| Potassium   | 66600   | ug/L  | 1000 | 1000  | 1  | 08/18/20 06:00 | 08/20/20 09:28 | 7440-09-7 |      |
| Sodium  | 42500   | ug/L  | 1000 | 1000  | 1  | 08/18/20 06:00 | 08/20/20 09:28 | 7440-23-5 |      |
| Strontium   | 1180    | ug/L  | 1000 | 1000  | 1  | 08/18/20 06:00 | 08/20/20 09:28 | 7440-24-6 |      |
| Zinc  | <50.0   | ug/L  | 50.0 | 50.0  | 1  | 08/18/20 06:00 | 08/20/20 09:28 | 7440-66-6 |      |
| <b>6020 MET ICPMS</b>   |         |       |      |       |    |                |                |           |      |
| Analytical Method: EPA 6020    Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis       |         |       |      |       |    |                |                |           |      |
| Aluminum  | <50.0   | ug/L  | 50.0 | 50.0  | 1  | 08/18/20 10:02 | 08/18/20 17:47 | 7429-90-5 |      |
| Antimony  | <2.0    | ug/L  | 2.0  | 2.0   | 1  | 08/18/20 10:02 | 08/18/20 17:47 | 7440-36-0 |      |
| Beryllium   | <1.0    | ug/L  | 1.0  | 1.0   | 1  | 08/18/20 10:02 | 08/18/20 17:47 | 7440-41-7 |      |
| Cadmium   | <1.0    | ug/L  | 1.0  | 1.0   | 1  | 08/18/20 10:02 | 08/18/20 17:47 | 7440-43-9 |      |
| Lead  | <3.0    | ug/L  | 3.0  | 3.0   | 1  | 08/18/20 10:02 | 08/18/20 17:47 | 7439-92-1 |      |
| Selenium  | <5.0    | ug/L  | 5.0  | 5.0   | 1  | 08/18/20 10:02 | 08/18/20 17:47 | 7782-49-2 |      |
| Silver  | <0.20   | ug/L  | 0.25 | 0.20  | 1  | 08/18/20 10:02 | 08/18/20 17:47 | 7440-22-4 |      |
| Thallium  | <2.0    | ug/L  | 2.0  | 2.0   | 1  | 08/18/20 10:02 | 08/18/20 17:47 | 7440-28-0 |      |
| Titanium  | 519     | ug/L  | 5.0  | 0.36  | 5  | 08/18/20 10:02 | 08/19/20 15:05 | 7440-32-6 | N2   |
| Vanadium  | 5.8     | ug/L  | 4.0  | 4.0   | 1  | 08/18/20 10:02 | 08/18/20 17:47 | 7440-62-2 |      |
| <b>7470 Mercury</b>   |         |       |      |       |    |                |                |           |      |
| Analytical Method: EPA 7470    Preparation Method: EPA 7470<br>Pace Analytical Services - Indianapolis        |         |       |      |       |    |                |                |           |      |
| Mercury   | <0.080  | ug/L  | 0.20 | 0.080 | 1  | 08/18/20 02:11 | 08/18/20 11:45 | 7439-97-6 |      |
| <b>8270 100mL Combo RV</b>  |         |       |      |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis |         |       |      |       |    |                |                |           |      |
| Acenaphthene  | <4.5    | ug/L  | 4.5  | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 15:40 | 83-32-9   |      |
| Acenaphthylene  | <4.5    | ug/L  | 4.5  | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 15:40 | 208-96-8  |      |
| Anthracene  | <4.5    | ug/L  | 4.5  | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 15:40 | 120-12-7  |      |
| Benzo(a)anthracene  | <0.91   | ug/L  | 0.91 | 0.91  | 1  | 08/16/20 16:36 | 08/17/20 15:40 | 56-55-3   |      |
| Benzo(a)pyrene  | <0.18   | ug/L  | 0.18 | 0.18  | 1  | 08/16/20 16:36 | 08/17/20 15:40 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <0.91   | ug/L  | 0.91 | 0.91  | 1  | 08/16/20 16:36 | 08/17/20 15:40 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <0.91   | ug/L  | 0.91 | 0.91  | 1  | 08/16/20 16:36 | 08/17/20 15:40 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <0.91   | ug/L  | 0.91 | 0.91  | 1  | 08/16/20 16:36 | 08/17/20 15:40 | 207-08-9  |      |
| Chrysene  | <0.91   | ug/L  | 0.91 | 0.91  | 1  | 08/16/20 16:36 | 08/17/20 15:40 | 218-01-9  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50264929

**Sample: MW-133**      **Lab ID: 50264929001**      Collected: 08/13/20 13:14      Received: 08/14/20 13:50      Matrix: Water

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 100mL Combo RV</b>   |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3510 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                            |         |       |        |      |    |                |                |           |      |
| Dibenz(a,h)anthracene  | <1.8    | ug/L  | 1.8    | 1.8  | 1  | 08/16/20 16:36 | 08/17/20 15:40 | 53-70-3   |      |
| Fluoranthene   | 1.3     | ug/L  | 0.91   | 0.91 | 1  | 08/16/20 16:36 | 08/17/20 15:40 | 206-44-0  |      |
| Fluorene   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 08/16/20 16:36 | 08/17/20 15:40 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | <1.8    | ug/L  | 1.8    | 1.8  | 1  | 08/16/20 16:36 | 08/17/20 15:40 | 193-39-5  |      |
| 2-Methylnaphthalene  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 08/16/20 16:36 | 08/17/20 15:40 | 91-57-6   |      |
| Naphthalene  | 4.8     | ug/L  | 4.5    | 4.5  | 1  | 08/16/20 16:36 | 08/17/20 15:40 | 91-20-3   |      |
| Phenanthrene   | 4.2     | ug/L  | 1.8    | 1.8  | 1  | 08/16/20 16:36 | 08/17/20 15:40 | 85-01-8   |      |
| Pyrene   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 08/16/20 16:36 | 08/17/20 15:40 | 129-00-0  |      |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |           |      |
| 2-Fluorobiphenyl (S)   | 59      | %     | 32-107 |      | 1  | 08/16/20 16:36 | 08/17/20 15:40 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 72      | %     | 29-143 |      | 1  | 08/16/20 16:36 | 08/17/20 15:40 | 1718-51-0 |      |
| <b>8270 SVOC Combo Water</b>                                       |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3510        |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                            |         |       |        |      |    |                |                |           |      |
| 4-Bromophenylphenyl ether  | <3.2    | ug/L  | 9.1    | 3.2  | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 101-55-3  |      |
| Butylbenzylphthalate   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 85-68-7   |      |
| Carbazole  | 10.9    | ug/L  | 9.1    | 9.1  | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 86-74-8   |      |
| 4-Chloro-3-methylphenol  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane   | <3.4    | ug/L  | 9.1    | 3.4  | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 111-91-1  |      |
| bis(2-Chloroethyl) ether   | <2.0    | ug/L  | 4.5    | 2.0  | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                                       | <3.6    | ug/L  | 9.1    | 3.6  | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 108-60-1  |      |
| 2-Chloronaphthalene  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 91-58-7   |      |
| 2-Chlorophenol   | <9.1    | ug/L  | 9.1    | 9.1  | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether   | <2.6    | ug/L  | 9.1    | 2.6  | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 7005-72-3 |      |
| Dibenzofuran   | <3.6    | ug/L  | 4.5    | 3.6  | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 132-64-9  |      |
| 2,4-Dichlorophenol   | <9.1    | ug/L  | 9.1    | 9.1  | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 120-83-2  |      |
| Diethylphthalate   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 84-66-2   |      |
| 2,4-Dimethylphenol   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 105-67-9  |      |
| Dimethylphthalate  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 131-11-3  |      |
| Di-n-butylphthalate  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | <18.2   | ug/L  | 18.2   | 18.2 | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 534-52-1  |      |
| 2,4-Dinitrophenol  | <3.5    | ug/L  | 45.5   | 3.5  | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 51-28-5   |      |
| 2,4-Dinitrotoluene   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 121-14-2  |      |
| 2,6-Dinitrotoluene   | <3.0    | ug/L  | 4.5    | 3.0  | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 606-20-2  |      |
| Di-n-octylphthalate  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 117-84-0  |      |
| 1,2-Diphenylhydrazine  | <3.3    | ug/L  | 9.1    | 3.3  | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 117-81-7  |      |
| Hexachloro-1,3-butadiene   | <2.7    | ug/L  | 4.5    | 2.7  | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 87-68-3   |      |
| Hexachlorobenzene  | <2.4    | ug/L  | 4.5    | 2.4  | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 118-74-1  |      |
| Hexachlorocyclopentadiene  | <22.7   | ug/L  | 22.7   | 22.7 | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 77-47-4   |      |
| Hexachloroethane   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 67-72-1   |      |
| Isophorone   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 78-59-1   |      |
| 2-Methylphenol(o-Cresol)   | <9.1    | ug/L  | 9.1    | 9.1  | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                                       | <18.2   | ug/L  | 18.2   | 18.2 | 1  | 08/16/20 16:36 | 08/17/20 16:10 |           |      |
| 2-Nitroaniline   | <5.3    | ug/L  | 9.1    | 5.3  | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 88-74-4   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

**Sample: MW-133**      **Lab ID: 50264929001**      Collected: 08/13/20 13:14      Received: 08/14/20 13:50      Matrix: Water

| Parameters   | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC Combo Water</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis |         |       |        |       |    |                |                |           |      |
| 3-Nitroaniline   | <4.6    | ug/L  | 9.1    | 4.6   | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 99-09-2   |      |
| 4-Nitroaniline   | <4.4    | ug/L  | 9.1    | 4.4   | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 100-01-6  |      |
| Nitrobenzene   | <2.7    | ug/L  | 4.5    | 2.7   | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 98-95-3   |      |
| 2-Nitrophenol  | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 88-75-5   |      |
| 4-Nitrophenol  | <5.5    | ug/L  | 45.5   | 5.5   | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 100-02-7  | L1   |
| N-Nitrosodimethylamine   | <2.6    | ug/L  | 9.1    | 2.6   | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine   | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 621-64-7  |      |
| N-Nitrosodiphenylamine   | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 86-30-6   |      |
| Pentachlorophenol  | <1.8    | ug/L  | 18.2   | 1.8   | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 87-86-5   |      |
| Phenol   | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 108-95-2  |      |
| 1,2,4-Trichlorobenzene   | <0.99   | ug/L  | 9.1    | 0.99  | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 120-82-1  |      |
| 2,4,5-Trichlorophenol  | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 95-95-4   |      |
| 2,4,6-Trichlorophenol  | <3.6    | ug/L  | 4.5    | 3.6   | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| Nitrobenzene-d5 (S)  | 81      | %     | 37-125 |       | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 4165-60-0 |      |
| Phenol-d5 (S)  | 48      | %     | 10-65  |       | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 4165-62-2 |      |
| 2-Fluorophenol (S)   | 59      | %     | 13-81  |       | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)   | 95      | %     | 43-135 |       | 1  | 08/16/20 16:36 | 08/17/20 16:10 | 118-79-6  |      |
| <b>8260C SIM Volatile Organics</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8260C SIM/5030C<br>Pace Analytical Services - Melville                          |         |       |        |       |    |                |                |           |      |
| 1,4-Dioxane (p-Dioxane)  | <0.090  | ug/L  | 0.20   | 0.090 | 1  |                | 08/25/20 21:50 | 123-91-1  |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| 1,2-Dichlorobenzene-d4 (S)   | 80      | %     | 60-140 |       | 1  |                | 08/25/20 21:50 | 2199-69-1 |      |
| 4-Bromofluorobenzene (S)   | 114     | %     | 79-124 |       | 1  |                | 08/25/20 21:50 | 460-00-4  |      |
| <b>8260 MSV Low Level</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis                           |         |       |        |       |    |                |                |           |      |
| Acetone  | <50.0   | ug/L  | 50.0   | 50.0  | 1  |                | 08/22/20 00:23 | 67-64-1   |      |
| Acrylonitrile  | <2.0    | ug/L  | 2.0    | 2.0   | 1  |                | 08/22/20 00:23 | 107-13-1  |      |
| tert-Amylmethyl ether  | <5.0    | ug/L  | 5.0    | 5.0   | 1  |                | 08/22/20 00:23 | 994-05-8  | N2   |
| Benzene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 08/22/20 00:23 | 71-43-2   |      |
| Bromobenzene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 08/22/20 00:23 | 108-86-1  |      |
| Bromochloromethane   | <0.22   | ug/L  | 1.0    | 0.22  | 1  |                | 08/22/20 00:23 | 74-97-5   |      |
| Bromodichloromethane   | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 08/22/20 00:23 | 75-27-4   |      |
| Bromoform  | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 08/22/20 00:23 | 75-25-2   |      |
| Bromomethane   | <5.0    | ug/L  | 5.0    | 5.0   | 1  |                | 08/22/20 00:23 | 74-83-9   |      |
| 2-Butanone (MEK)   | <25.0   | ug/L  | 25.0   | 25.0  | 1  |                | 08/22/20 00:23 | 78-93-3   |      |
| tert-Butyl Alcohol   | <50.0   | ug/L  | 50.0   | 50.0  | 1  |                | 08/22/20 00:23 | 75-65-0   |      |
| n-Butylbenzene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 08/22/20 00:23 | 104-51-8  |      |
| sec-Butylbenzene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 08/22/20 00:23 | 135-98-8  |      |
| tert-Butylbenzene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 08/22/20 00:23 | 98-06-6   |      |
| Carbon disulfide   | <5.0    | ug/L  | 5.0    | 5.0   | 1  |                | 08/22/20 00:23 | 75-15-0   |      |
| Carbon tetrachloride   | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 08/22/20 00:23 | 56-23-5   |      |
| Chlorobenzene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 08/22/20 00:23 | 108-90-7  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50264929

**Sample: MW-133** Lab ID: 50264929001 Collected: 08/13/20 13:14 Received: 08/14/20 13:50 Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 00:23 | 75-00-3    |      |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:23 | 67-66-3    |      |
| Chloromethane                           | 9.2     | ug/L  | 5.0  | 5.0  | 1  |          | 08/24/20 13:58 | 74-87-3    | L1   |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 08/22/20 00:23 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 08/22/20 00:23 | 96-12-8    |      |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 00:23 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 08/22/20 00:23 | 106-93-4   |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 00:23 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:23 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:23 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:23 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.40   | ug/L  | 100  | 0.40 | 1  |          | 08/22/20 00:23 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 00:23 | 75-71-8    |      |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:23 | 75-34-3    |      |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:23 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:23 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:23 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:23 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:23 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 08/22/20 00:23 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 08/22/20 00:23 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 00:23 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 00:23 | 108-20-3   | N2   |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:23 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 00:23 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 00:23 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 08/22/20 00:23 | 591-78-6   |      |
| Iodomethane                             | <0.51   | ug/L  | 5.0  | 0.51 | 1  |          | 08/22/20 00:23 | 74-88-4    |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 00:23 | 98-82-8    |      |
| p-Isopropyltoluene                      | <0.11   | ug/L  | 1.0  | 0.11 | 1  |          | 08/22/20 00:23 | 99-87-6    |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 00:23 | 75-09-2    |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0 | 5.0  | 1  |          | 08/22/20 00:23 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 08/22/20 00:23 | 108-10-1   |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 00:23 | 1634-04-4  |      |
| Naphthalene                             | 8.9     | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 00:23 | 91-20-3    |      |
| n-Propylbenzene                         | <100    | ug/L  | 100  | 100  | 1  |          | 08/22/20 00:23 | 103-65-1   |      |
| Styrene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:23 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:23 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:23 | 79-34-5    |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:23 | 127-18-4   |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0 | 90.0 | 1  |          | 08/22/20 00:23 | 109-99-9   | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:23 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 00:23 | 87-61-6    | L1   |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 00:23 | 120-82-1   |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:23 | 71-55-6    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

**Sample: MW-133**      **Lab ID: 50264929001**      Collected: 08/13/20 13:14      Received: 08/14/20 13:50      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>                                     |         |       |        |      |    |                |                |             |      |
| Analytical Method: EPA 5030B/8260                             |         |       |        |      |    |                |                |             |      |
| Pace Analytical Services - Indianapolis                       |         |       |        |      |    |                |                |             |      |
| 1,1,2-Trichloroethane   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 08/22/20 00:23 | 79-00-5     |      |
| Trichloroethene   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 08/22/20 00:23 | 79-01-6     |      |
| Trichlorofluoromethane  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |                | 08/22/20 00:23 | 75-69-4     |      |
| 1,2,3-Trichloropropane  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 08/22/20 00:23 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 08/22/20 00:23 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |                | 08/22/20 00:23 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |                | 08/22/20 00:23 | 108-67-8    |      |
| Vinyl chloride  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 08/22/20 00:23 | 75-01-4     | L1   |
| m&p-Xylene  | <0.24   | ug/L  | 2.0    | 0.24 | 1  |                | 08/22/20 00:23 | 179601-23-1 |      |
| o-Xylene  | <0.16   | ug/L  | 1.0    | 0.16 | 1  |                | 08/22/20 00:23 | 95-47-6     |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |             |      |
| 4-Bromofluorobenzene (S)                                      | 99      | %     | 85-116 |      | 1  |                | 08/22/20 00:23 | 460-00-4    |      |
| Dibromofluoromethane (S)                                      | 102     | %     | 75-120 |      | 1  |                | 08/22/20 00:23 | 1868-53-7   |      |
| Toluene-d8 (S)  | 94      | %     | 83-111 |      | 1  |                | 08/22/20 00:23 | 2037-26-5   |      |
| <b>9012 Cyanide, Total</b>                                    |         |       |        |      |    |                |                |             |      |
| Analytical Method: EPA 9012      Preparation Method: EPA 9012 |         |       |        |      |    |                |                |             |      |
| Pace Analytical Services - Indianapolis                       |         |       |        |      |    |                |                |             |      |
| Cyanide   | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 08/17/20 09:38 | 08/18/20 10:15 | 57-12-5     |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50264929

**Sample: MW-132**      **Lab ID: 50264929002**      Collected: 08/13/20 14:21      Received: 08/14/20 13:50      Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|-----|-----|----|----------|----------|---------|------|
|------------|---------|-------|-----|-----|----|----------|----------|---------|------|

**8015M Alcohols in water**

Analytical Method: EPA 8015 Alcohol-Glycol  
Pace Analytical Services - Indianapolis

|           |       |      |      |      |   |  |                |         |  |
|-----------|-------|------|------|------|---|--|----------------|---------|--|
| n-Butanol | <800  | ug/L | 5000 | 800  | 1 |  | 08/19/20 10:45 | 71-36-3 |  |
| Ethanol   | <1000 | ug/L | 5000 | 1000 | 1 |  | 08/19/20 10:45 | 64-17-5 |  |
| Methanol  | 8740  | ug/L | 5000 | 400  | 1 |  | 08/19/20 10:45 | 67-56-1 |  |

**8082 GCS PCB RV Waters**

Analytical Method: EPA 8082 Preparation Method: EPA 3510  
Pace Analytical Services - Indianapolis

|                         |       |      |      |      |   |                |                |            |    |
|-------------------------|-------|------|------|------|---|----------------|----------------|------------|----|
| PCB-1016 (Aroclor 1016) | <0.19 | ug/L | 0.19 | 0.19 | 1 | 08/26/20 14:05 | 08/26/20 23:58 | 12674-11-2 |    |
| PCB-1221 (Aroclor 1221) | <0.19 | ug/L | 0.19 | 0.19 | 1 | 08/26/20 14:05 | 08/26/20 23:58 | 11104-28-2 |    |
| PCB-1232 (Aroclor 1232) | <0.19 | ug/L | 0.19 | 0.19 | 1 | 08/26/20 14:05 | 08/26/20 23:58 | 11141-16-5 |    |
| PCB-1242 (Aroclor 1242) | <0.19 | ug/L | 0.19 | 0.19 | 1 | 08/26/20 14:05 | 08/26/20 23:58 | 53469-21-9 |    |
| PCB-1248 (Aroclor 1248) | <0.19 | ug/L | 0.19 | 0.19 | 1 | 08/26/20 14:05 | 08/26/20 23:58 | 12672-29-6 |    |
| PCB-1254 (Aroclor 1254) | <0.19 | ug/L | 0.19 | 0.19 | 1 | 08/26/20 14:05 | 08/26/20 23:58 | 11097-69-1 |    |
| PCB-1260 (Aroclor 1260) | <0.19 | ug/L | 0.19 | 0.19 | 1 | 08/26/20 14:05 | 08/26/20 23:58 | 11096-82-5 |    |
| PCB-1262 (Aroclor 1262) | <0.19 | ug/L | 0.19 | 0.19 | 1 | 08/26/20 14:05 | 08/26/20 23:58 | 37324-23-5 | N2 |
| PCB-1268 (Aroclor 1268) | <0.19 | ug/L | 0.19 | 0.19 | 1 | 08/26/20 14:05 | 08/26/20 23:58 | 11100-14-4 | N2 |

**Surrogates**

|                          |    |   |        |  |   |                |                |          |  |
|--------------------------|----|---|--------|--|---|----------------|----------------|----------|--|
| Tetrachloro-m-xylene (S) | 70 | % | 10-144 |  | 1 | 08/26/20 14:05 | 08/26/20 23:58 | 877-09-8 |  |
|--------------------------|----|---|--------|--|---|----------------|----------------|----------|--|

**6010 MET ICP**

Analytical Method: EPA 6010 Preparation Method: EPA 3010  
Pace Analytical Services - Indianapolis

|            |        |      |      |      |   |                |                |           |  |
|------------|--------|------|------|------|---|----------------|----------------|-----------|--|
| Arsenic    | <5.0   | ug/L | 5.0  | 5.0  | 1 | 08/18/20 06:00 | 08/20/20 09:30 | 7440-38-2 |  |
| Barium     | 238    | ug/L | 100  | 100  | 1 | 08/18/20 06:00 | 08/20/20 09:30 | 7440-39-3 |  |
| Boron      | <300   | ug/L | 300  | 300  | 1 | 08/18/20 06:00 | 08/20/20 09:30 | 7440-42-8 |  |
| Calcium    | 275000 | ug/L | 5000 | 5000 | 5 | 08/18/20 06:00 | 08/20/20 09:58 | 7440-70-2 |  |
| Chromium   | <10.0  | ug/L | 10.0 | 10.0 | 1 | 08/18/20 06:00 | 08/20/20 09:30 | 7440-47-3 |  |
| Cobalt     | <20.0  | ug/L | 20.0 | 20.0 | 1 | 08/18/20 06:00 | 08/20/20 09:30 | 7440-48-4 |  |
| Copper     | 34.1   | ug/L | 4.0  | 4.0  | 1 | 08/18/20 06:00 | 08/20/20 09:30 | 7440-50-8 |  |
| Iron       | <200   | ug/L | 200  | 200  | 1 | 08/18/20 06:00 | 08/20/20 09:30 | 7439-89-6 |  |
| Magnesium  | <1000  | ug/L | 1000 | 1000 | 1 | 08/18/20 06:00 | 08/20/20 09:30 | 7439-95-4 |  |
| Manganese  | <50.0  | ug/L | 50.0 | 50.0 | 1 | 08/18/20 06:00 | 08/20/20 09:30 | 7439-96-5 |  |
| Molybdenum | <50.0  | ug/L | 50.0 | 50.0 | 1 | 08/18/20 06:00 | 08/20/20 09:30 | 7439-98-7 |  |
| Nickel     | 36.0   | ug/L | 20.0 | 20.0 | 1 | 08/18/20 06:00 | 08/20/20 09:30 | 7440-02-0 |  |
| Potassium  | 181000 | ug/L | 5000 | 5000 | 5 | 08/18/20 06:00 | 08/20/20 09:58 | 7440-09-7 |  |
| Sodium     | 90600  | ug/L | 1000 | 1000 | 1 | 08/18/20 06:00 | 08/20/20 09:30 | 7440-23-5 |  |
| Strontium  | 2700   | ug/L | 1000 | 1000 | 1 | 08/18/20 06:00 | 08/20/20 09:30 | 7440-24-6 |  |
| Zinc       | <50.0  | ug/L | 50.0 | 50.0 | 1 | 08/18/20 06:00 | 08/20/20 09:30 | 7440-66-6 |  |

**6020 MET ICPMS**

Analytical Method: EPA 6020 Preparation Method: EPA 200.2  
Pace Analytical Services - Indianapolis

|           |      |      |     |     |   |                |                |           |  |
|-----------|------|------|-----|-----|---|----------------|----------------|-----------|--|
| Aluminum  | 3350 | ug/L | 250 | 250 | 5 | 08/18/20 10:02 | 08/19/20 15:09 | 7429-90-5 |  |
| Antimony  | <2.0 | ug/L | 2.0 | 2.0 | 1 | 08/18/20 10:02 | 08/18/20 17:56 | 7440-36-0 |  |
| Beryllium | <1.0 | ug/L | 1.0 | 1.0 | 1 | 08/18/20 10:02 | 08/18/20 17:56 | 7440-41-7 |  |
| Cadmium   | <1.0 | ug/L | 1.0 | 1.0 | 1 | 08/18/20 10:02 | 08/18/20 17:56 | 7440-43-9 |  |
| Lead      | 22.5 | ug/L | 3.0 | 3.0 | 1 | 08/18/20 10:02 | 08/18/20 17:56 | 7439-92-1 |  |
| Selenium  | <5.0 | ug/L | 5.0 | 5.0 | 1 | 08/18/20 10:02 | 08/18/20 17:56 | 7782-49-2 |  |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

**Sample: MW-132**      **Lab ID: 50264929002**      Collected: 08/13/20 14:21      Received: 08/14/20 13:50      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>6020 MET ICPMS</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020    Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis       |         |       |        |       |    |                |                |           |      |
| Silver  | <0.20   | ug/L  | 0.25   | 0.20  | 1  | 08/18/20 10:02 | 08/18/20 17:56 | 7440-22-4 |      |
| Thallium  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 08/18/20 10:02 | 08/18/20 17:56 | 7440-28-0 |      |
| Titanium  | 650     | ug/L  | 5.0    | 0.36  | 5  | 08/18/20 10:02 | 08/19/20 15:09 | 7440-32-6 | N2   |
| Vanadium  | <4.0    | ug/L  | 4.0    | 4.0   | 1  | 08/18/20 10:02 | 08/18/20 17:56 | 7440-62-2 |      |
| <b>7470 Mercury</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7470    Preparation Method: EPA 7470<br>Pace Analytical Services - Indianapolis        |         |       |        |       |    |                |                |           |      |
| Mercury   | <0.080  | ug/L  | 0.20   | 0.080 | 1  | 08/18/20 02:11 | 08/18/20 11:47 | 7439-97-6 |      |
| <b>8270 100mL Combo RV</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis |         |       |        |       |    |                |                |           |      |
| Acenaphthene  | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 15:52 | 83-32-9   |      |
| Acenaphthylene  | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 15:52 | 208-96-8  |      |
| Anthracene  | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 15:52 | 120-12-7  |      |
| Benzo(a)anthracene  | <0.91   | ug/L  | 0.91   | 0.91  | 1  | 08/16/20 16:36 | 08/17/20 15:52 | 56-55-3   |      |
| Benzo(a)pyrene  | <0.18   | ug/L  | 0.18   | 0.18  | 1  | 08/16/20 16:36 | 08/17/20 15:52 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <0.91   | ug/L  | 0.91   | 0.91  | 1  | 08/16/20 16:36 | 08/17/20 15:52 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <0.91   | ug/L  | 0.91   | 0.91  | 1  | 08/16/20 16:36 | 08/17/20 15:52 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <0.91   | ug/L  | 0.91   | 0.91  | 1  | 08/16/20 16:36 | 08/17/20 15:52 | 207-08-9  |      |
| Chrysene  | <0.91   | ug/L  | 0.91   | 0.91  | 1  | 08/16/20 16:36 | 08/17/20 15:52 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | <1.8    | ug/L  | 1.8    | 1.8   | 1  | 08/16/20 16:36 | 08/17/20 15:52 | 53-70-3   |      |
| Fluoranthene  | 1.5     | ug/L  | 0.91   | 0.91  | 1  | 08/16/20 16:36 | 08/17/20 15:52 | 206-44-0  |      |
| Fluorene  | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 15:52 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene  | <1.8    | ug/L  | 1.8    | 1.8   | 1  | 08/16/20 16:36 | 08/17/20 15:52 | 193-39-5  |      |
| 2-Methylnaphthalene   | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 15:52 | 91-57-6   |      |
| Naphthalene   | 16.2    | ug/L  | 4.5    | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 15:52 | 91-20-3   |      |
| Phenanthrene  | 5.6     | ug/L  | 1.8    | 1.8   | 1  | 08/16/20 16:36 | 08/17/20 15:52 | 85-01-8   |      |
| Pyrene  | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 15:52 | 129-00-0  |      |
| <b>Surrogates</b>   |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)  | 59      | %     | 32-107 |       | 1  | 08/16/20 16:36 | 08/17/20 15:52 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 76      | %     | 29-143 |       | 1  | 08/16/20 16:36 | 08/17/20 15:52 | 1718-51-0 |      |
| <b>8270 SVOC Combo Water</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis        |         |       |        |       |    |                |                |           |      |
| 4-Bromophenylphenyl ether   | <3.2    | ug/L  | 9.1    | 3.2   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 101-55-3  |      |
| Butylbenzylphthalate  | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 85-68-7   |      |
| Carbazole   | 11.5    | ug/L  | 9.1    | 9.1   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 86-74-8   |      |
| 4-Chloro-3-methylphenol   | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane  | <3.4    | ug/L  | 9.1    | 3.4   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 111-91-1  |      |
| bis(2-Chloroethyl) ether  | <2.0    | ug/L  | 4.5    | 2.0   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether  | <3.6    | ug/L  | 9.1    | 3.6   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 108-60-1  |      |
| 2-Chloronaphthalene   | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 91-58-7   |      |
| 2-Chlorophenol  | <9.1    | ug/L  | 9.1    | 9.1   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether  | <2.6    | ug/L  | 9.1    | 2.6   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 7005-72-3 |      |
| Dibenzofuran  | <3.6    | ug/L  | 4.5    | 3.6   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 132-64-9  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

Sample: MW-132 Lab ID: 50264929002 Collected: 08/13/20 14:21 Received: 08/14/20 13:50 Matrix: Water

| Parameters   | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC Combo Water</b>                             |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3510 |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |        |       |    |                |                |           |      |
| 2,4-Dichlorophenol                                       | <9.1    | ug/L  | 9.1    | 9.1   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 120-83-2  |      |
| Diethylphthalate   | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 84-66-2   |      |
| 2,4-Dimethylphenol                                       | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 105-67-9  |      |
| Dimethylphthalate  | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 131-11-3  |      |
| Di-n-butylphthalate                                      | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                               | <18.2   | ug/L  | 18.2   | 18.2  | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 534-52-1  |      |
| 2,4-Dinitrophenol  | <3.5    | ug/L  | 45.5   | 3.5   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 51-28-5   |      |
| 2,4-Dinitrotoluene                                       | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 121-14-2  |      |
| 2,6-Dinitrotoluene                                       | <3.0    | ug/L  | 4.5    | 3.0   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 606-20-2  |      |
| Di-n-octylphthalate                                      | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                    | <3.3    | ug/L  | 9.1    | 3.3   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate                               | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 117-81-7  |      |
| Hexachloro-1,3-butadiene                                 | <2.7    | ug/L  | 4.5    | 2.7   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 87-68-3   |      |
| Hexachlorobenzene  | <2.4    | ug/L  | 4.5    | 2.4   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                | <22.7   | ug/L  | 22.7   | 22.7  | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 77-47-4   |      |
| Hexachloroethane   | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 67-72-1   |      |
| Isophorone   | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 78-59-1   |      |
| 2-Methylphenol(o-Cresol)                                 | <9.1    | ug/L  | 9.1    | 9.1   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                             | <18.2   | ug/L  | 18.2   | 18.2  | 1  | 08/16/20 16:36 | 08/17/20 16:27 |           |      |
| 2-Nitroaniline   | <5.3    | ug/L  | 9.1    | 5.3   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 88-74-4   |      |
| 3-Nitroaniline   | <4.6    | ug/L  | 9.1    | 4.6   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 99-09-2   |      |
| 4-Nitroaniline   | <4.4    | ug/L  | 9.1    | 4.4   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 100-01-6  |      |
| Nitrobenzene   | <2.7    | ug/L  | 4.5    | 2.7   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 98-95-3   |      |
| 2-Nitrophenol  | 5.7     | ug/L  | 4.5    | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 88-75-5   |      |
| 4-Nitrophenol  | 8.2J    | ug/L  | 45.5   | 5.5   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 100-02-7  | L1   |
| N-Nitrosodimethylamine                                   | <2.6    | ug/L  | 9.1    | 2.6   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                               | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                   | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 86-30-6   |      |
| Pentachlorophenol  | <1.8    | ug/L  | 18.2   | 1.8   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 87-86-5   |      |
| Phenol   | 34.9    | ug/L  | 4.5    | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 108-95-2  |      |
| 1,2,4-Trichlorobenzene                                   | <0.99   | ug/L  | 9.1    | 0.99  | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                    | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                    | <3.6    | ug/L  | 4.5    | 3.6   | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| Nitrobenzene-d5 (S)                                      | 80      | %     | 37-125 |       | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 4165-60-0 |      |
| Phenol-d5 (S)  | 44      | %     | 10-65  |       | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 4165-62-2 |      |
| 2-Fluorophenol (S)                                       | 54      | %     | 13-81  |       | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                 | 87      | %     | 43-135 |       | 1  | 08/16/20 16:36 | 08/17/20 16:27 | 118-79-6  |      |
| <b>8260C SIM Volatile Organics</b>                       |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8260C SIM/5030C                   |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Melville                      |         |       |        |       |    |                |                |           |      |
| 1,4-Dioxane (p-Dioxane)                                  | 0.23    | ug/L  | 0.20   | 0.090 | 1  |                | 08/25/20 22:16 | 123-91-1  | D6   |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| 1,2-Dichlorobenzene-d4 (S)                               | 85      | %     | 60-140 |       | 1  |                | 08/25/20 22:16 | 2199-69-1 |      |
| 4-Bromofluorobenzene (S)                                 | 119     | %     | 79-124 |       | 1  |                | 08/25/20 22:16 | 460-00-4  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

**Sample: MW-132**      **Lab ID: 50264929002**      Collected: 08/13/20 14:21      Received: 08/14/20 13:50      Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| Acetone                                 | 162     | ug/L  | 50.0 | 50.0 | 1  |          | 08/22/20 00:56 | 67-64-1    |      |
| Acrylonitrile                           | <2.0    | ug/L  | 2.0  | 2.0  | 1  |          | 08/22/20 00:56 | 107-13-1   |      |
| tert-Amylmethyl ether                   | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 00:56 | 994-05-8   | N2   |
| Benzene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:56 | 71-43-2    |      |
| Bromobenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:56 | 108-86-1   |      |
| Bromochloromethane                      | <0.22   | ug/L  | 1.0  | 0.22 | 1  |          | 08/22/20 00:56 | 74-97-5    |      |
| Bromodichloromethane                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:56 | 75-27-4    |      |
| Bromoform                               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:56 | 75-25-2    |      |
| Bromomethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 00:56 | 74-83-9    |      |
| 2-Butanone (MEK)                        | <25.0   | ug/L  | 25.0 | 25.0 | 1  |          | 08/22/20 00:56 | 78-93-3    |      |
| tert-Butyl Alcohol                      | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 08/22/20 00:56 | 75-65-0    |      |
| n-Butylbenzene                          | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:56 | 104-51-8   |      |
| sec-Butylbenzene                        | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:56 | 135-98-8   |      |
| tert-Butylbenzene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:56 | 98-06-6    |      |
| Carbon disulfide                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 00:56 | 75-15-0    |      |
| Carbon tetrachloride                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:56 | 56-23-5    |      |
| Chlorobenzene                           | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:56 | 108-90-7   |      |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 00:56 | 75-00-3    |      |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:56 | 67-66-3    |      |
| Chloromethane                           | 5.2     | ug/L  | 5.0  | 5.0  | 1  |          | 08/24/20 14:32 | 74-87-3    | L1   |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 08/22/20 00:56 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 08/22/20 00:56 | 96-12-8    |      |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 00:56 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 08/22/20 00:56 | 106-93-4   |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 00:56 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:56 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:56 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:56 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.40   | ug/L  | 100  | 0.40 | 1  |          | 08/22/20 00:56 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 00:56 | 75-71-8    |      |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:56 | 75-34-3    |      |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:56 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:56 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:56 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:56 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:56 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 08/22/20 00:56 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 08/22/20 00:56 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 00:56 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 00:56 | 108-20-3   | N2   |
| Ethylbenzene                            | 3.7     | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 00:56 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 00:56 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 00:56 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 08/22/20 00:56 | 591-78-6   |      |
| Iodomethane                             | <0.51   | ug/L  | 5.0  | 0.51 | 1  |          | 08/22/20 00:56 | 74-88-4    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

**Sample: MW-132**      **Lab ID: 50264929002**      Collected: 08/13/20 14:21      Received: 08/14/20 13:50      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>                                     |         |       |        |      |    |                |                |             |      |
| Analytical Method: EPA 5030B/8260                             |         |       |        |      |    |                |                |             |      |
| Pace Analytical Services - Indianapolis                       |         |       |        |      |    |                |                |             |      |
| Isopropylbenzene (Cumene)                                     | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 08/22/20 00:56 | 98-82-8     |      |
| p-Isopropyltoluene  | <0.11   | ug/L  | 1.0    | 0.11 | 1  |                | 08/22/20 00:56 | 99-87-6     |      |
| Methylene Chloride  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 08/22/20 00:56 | 75-09-2     |      |
| 2-Methylnaphthalene   | <5.0    | ug/L  | 20.0   | 5.0  | 1  |                | 08/22/20 00:56 | 91-57-6     |      |
| 4-Methyl-2-pentanone (MIBK)                                   | <50.0   | ug/L  | 50.0   | 50.0 | 1  |                | 08/22/20 00:56 | 108-10-1    |      |
| Methyl-tert-butyl ether                                       | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 08/22/20 00:56 | 1634-04-4   |      |
| Naphthalene   | 29.2    | ug/L  | 5.0    | 5.0  | 1  |                | 08/22/20 00:56 | 91-20-3     |      |
| n-Propylbenzene   | <100    | ug/L  | 100    | 100  | 1  |                | 08/22/20 00:56 | 103-65-1    |      |
| Styrene   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 08/22/20 00:56 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane                                     | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 08/22/20 00:56 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane                                     | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 08/22/20 00:56 | 79-34-5     |      |
| Tetrachloroethene   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 08/22/20 00:56 | 127-18-4    |      |
| Tetrahydrofuran   | <90.0   | ug/L  | 90.0   | 90.0 | 1  |                | 08/22/20 00:56 | 109-99-9    | N2   |
| Toluene   | 1.5     | ug/L  | 1.0    | 1.0  | 1  |                | 08/22/20 00:56 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 08/22/20 00:56 | 87-61-6     | L1   |
| 1,2,4-Trichlorobenzene  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 08/22/20 00:56 | 120-82-1    |      |
| 1,1,1-Trichloroethane   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 08/22/20 00:56 | 71-55-6     |      |
| 1,1,2-Trichloroethane   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 08/22/20 00:56 | 79-00-5     |      |
| Trichloroethene   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 08/22/20 00:56 | 79-01-6     |      |
| Trichlorofluoromethane  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |                | 08/22/20 00:56 | 75-69-4     |      |
| 1,2,3-Trichloropropane  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 08/22/20 00:56 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 08/22/20 00:56 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene  | 2.2J    | ug/L  | 5.0    | 1.0  | 1  |                | 08/22/20 00:56 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene  | 1.1J    | ug/L  | 5.0    | 1.0  | 1  |                | 08/22/20 00:56 | 108-67-8    |      |
| Vinyl chloride  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 08/22/20 00:56 | 75-01-4     | L1   |
| m&p-Xylene  | 13.9    | ug/L  | 2.0    | 0.24 | 1  |                | 08/22/20 00:56 | 179601-23-1 |      |
| o-Xylene  | 7.0     | ug/L  | 1.0    | 0.16 | 1  |                | 08/22/20 00:56 | 95-47-6     |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |             |      |
| 4-Bromofluorobenzene (S)                                      | 100     | %     | 85-116 |      | 1  |                | 08/22/20 00:56 | 460-00-4    |      |
| Dibromofluoromethane (S)                                      | 103     | %     | 75-120 |      | 1  |                | 08/22/20 00:56 | 1868-53-7   |      |
| Toluene-d8 (S)  | 94      | %     | 83-111 |      | 1  |                | 08/22/20 00:56 | 2037-26-5   |      |
| <b>9012 Cyanide, Total</b>                                    |         |       |        |      |    |                |                |             |      |
| Analytical Method: EPA 9012      Preparation Method: EPA 9012 |         |       |        |      |    |                |                |             |      |
| Pace Analytical Services - Indianapolis                       |         |       |        |      |    |                |                |             |      |
| Cyanide   | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 08/17/20 09:38 | 08/18/20 10:15 | 57-12-5     |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

**Sample: Dup**      **Lab ID: 50264929003**      Collected: 08/13/20 00:00      Received: 08/14/20 13:50      Matrix: Water

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|------------|------|
| <b>8015M Alcohols in water</b>   |         |       |        |      |    |                |                |            |      |
| Analytical Method: EPA 8015 Alcohol-Glycol<br>Pace Analytical Services - Indianapolis                |         |       |        |      |    |                |                |            |      |
| n-Butanol  | <800    | ug/L  | 5000   | 800  | 1  |                | 08/19/20 10:55 | 71-36-3    |      |
| Ethanol  | <1000   | ug/L  | 5000   | 1000 | 1  |                | 08/19/20 10:55 | 64-17-5    |      |
| Methanol   | <400    | ug/L  | 5000   | 400  | 1  |                | 08/19/20 10:55 | 67-56-1    |      |
| <b>8082 GCS PCB RV Waters</b>  |         |       |        |      |    |                |                |            |      |
| Analytical Method: EPA 8082 Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis  |         |       |        |      |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)  | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 08/26/20 14:05 | 08/27/20 00:12 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)  | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 08/26/20 14:05 | 08/27/20 00:12 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)  | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 08/26/20 14:05 | 08/27/20 00:12 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)  | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 08/26/20 14:05 | 08/27/20 00:12 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)  | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 08/26/20 14:05 | 08/27/20 00:12 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)  | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 08/26/20 14:05 | 08/27/20 00:12 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)  | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 08/26/20 14:05 | 08/27/20 00:12 | 11096-82-5 |      |
| PCB-1262 (Aroclor 1262)  | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 08/26/20 14:05 | 08/27/20 00:12 | 37324-23-5 | N2   |
| PCB-1268 (Aroclor 1268)  | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 08/26/20 14:05 | 08/27/20 00:12 | 11100-14-4 | N2   |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |            |      |
| Tetrachloro-m-xylene (S)   | 56      | %     | 10-144 |      | 1  | 08/26/20 14:05 | 08/27/20 00:12 | 877-09-8   |      |
| <b>6010 MET ICP</b>  |         |       |        |      |    |                |                |            |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3010<br>Pace Analytical Services - Indianapolis  |         |       |        |      |    |                |                |            |      |
| Arsenic  | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 08/18/20 06:00 | 08/20/20 09:33 | 7440-38-2  |      |
| Barium   | <100    | ug/L  | 100    | 100  | 1  | 08/18/20 06:00 | 08/20/20 09:33 | 7440-39-3  |      |
| Boron  | 1220    | ug/L  | 300    | 300  | 1  | 08/18/20 06:00 | 08/20/20 09:33 | 7440-42-8  |      |
| Calcium  | 219000  | ug/L  | 5000   | 5000 | 5  | 08/18/20 06:00 | 08/20/20 10:00 | 7440-70-2  |      |
| Chromium   | <10.0   | ug/L  | 10.0   | 10.0 | 1  | 08/18/20 06:00 | 08/20/20 09:33 | 7440-47-3  |      |
| Cobalt   | <20.0   | ug/L  | 20.0   | 20.0 | 1  | 08/18/20 06:00 | 08/20/20 09:33 | 7440-48-4  |      |
| Copper   | <4.0    | ug/L  | 4.0    | 4.0  | 1  | 08/18/20 06:00 | 08/20/20 09:33 | 7440-50-8  |      |
| Iron   | <200    | ug/L  | 200    | 200  | 1  | 08/18/20 06:00 | 08/20/20 09:33 | 7439-89-6  |      |
| Magnesium  | 30900   | ug/L  | 1000   | 1000 | 1  | 08/18/20 06:00 | 08/20/20 09:33 | 7439-95-4  |      |
| Manganese  | 172     | ug/L  | 50.0   | 50.0 | 1  | 08/18/20 06:00 | 08/20/20 09:33 | 7439-96-5  |      |
| Molybdenum   | <50.0   | ug/L  | 50.0   | 50.0 | 1  | 08/18/20 06:00 | 08/20/20 09:33 | 7439-98-7  |      |
| Nickel   | <20.0   | ug/L  | 20.0   | 20.0 | 1  | 08/18/20 06:00 | 08/20/20 09:33 | 7440-02-0  |      |
| Potassium  | 66800   | ug/L  | 1000   | 1000 | 1  | 08/18/20 06:00 | 08/20/20 09:33 | 7440-09-7  |      |
| Sodium   | 42700   | ug/L  | 1000   | 1000 | 1  | 08/18/20 06:00 | 08/20/20 09:33 | 7440-23-5  |      |
| Strontium  | 1180    | ug/L  | 1000   | 1000 | 1  | 08/18/20 06:00 | 08/20/20 09:33 | 7440-24-6  |      |
| Zinc   | <50.0   | ug/L  | 50.0   | 50.0 | 1  | 08/18/20 06:00 | 08/20/20 09:33 | 7440-66-6  |      |
| <b>6020 MET ICPMS</b>  |         |       |        |      |    |                |                |            |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis |         |       |        |      |    |                |                |            |      |
| Aluminum   | <50.0   | ug/L  | 50.0   | 50.0 | 1  | 08/18/20 10:02 | 08/18/20 18:00 | 7429-90-5  |      |
| Antimony   | <2.0    | ug/L  | 2.0    | 2.0  | 1  | 08/18/20 10:02 | 08/18/20 18:00 | 7440-36-0  |      |
| Beryllium  | <1.0    | ug/L  | 1.0    | 1.0  | 1  | 08/18/20 10:02 | 08/18/20 18:00 | 7440-41-7  |      |
| Cadmium  | <1.0    | ug/L  | 1.0    | 1.0  | 1  | 08/18/20 10:02 | 08/18/20 18:00 | 7440-43-9  |      |
| Lead   | <3.0    | ug/L  | 3.0    | 3.0  | 1  | 08/18/20 10:02 | 08/18/20 18:00 | 7439-92-1  |      |
| Selenium   | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 08/18/20 10:02 | 08/18/20 18:00 | 7782-49-2  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

**Sample: Dup**      **Lab ID: 50264929003**      Collected: 08/13/20 00:00      Received: 08/14/20 13:50      Matrix: Water

| Parameters   | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>6020 MET ICPMS</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020    Preparation Method: EPA 200.2       |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                            |         |       |        |       |    |                |                |           |      |
| Silver   | <0.20   | ug/L  | 0.25   | 0.20  | 1  | 08/18/20 10:02 | 08/18/20 18:00 | 7440-22-4 |      |
| Thallium   | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 08/18/20 10:02 | 08/18/20 18:00 | 7440-28-0 |      |
| Titanium   | 534     | ug/L  | 5.0    | 0.36  | 5  | 08/18/20 10:02 | 08/19/20 15:13 | 7440-32-6 | N2   |
| Vanadium   | 5.2     | ug/L  | 4.0    | 4.0   | 1  | 08/18/20 10:02 | 08/18/20 18:00 | 7440-62-2 |      |
| <b>7470 Mercury</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7470    Preparation Method: EPA 7470        |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                            |         |       |        |       |    |                |                |           |      |
| Mercury  | <0.080  | ug/L  | 0.20   | 0.080 | 1  | 08/18/20 02:11 | 08/18/20 11:50 | 7439-97-6 |      |
| <b>8270 100mL Combo RV</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3510 |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                            |         |       |        |       |    |                |                |           |      |
| Acenaphthene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 08/16/20 16:36 | 08/17/20 16:03 | 83-32-9   |      |
| Acenaphthylene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 08/16/20 16:36 | 08/17/20 16:03 | 208-96-8  |      |
| Anthracene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 08/16/20 16:36 | 08/17/20 16:03 | 120-12-7  |      |
| Benzo(a)anthracene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 08/16/20 16:36 | 08/17/20 16:03 | 56-55-3   |      |
| Benzo(a)pyrene   | <0.20   | ug/L  | 0.20   | 0.20  | 1  | 08/16/20 16:36 | 08/17/20 16:03 | 50-32-8   |      |
| Benzo(b)fluoranthene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 08/16/20 16:36 | 08/17/20 16:03 | 205-99-2  |      |
| Benzo(g,h,i)perylene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 08/16/20 16:36 | 08/17/20 16:03 | 191-24-2  |      |
| Benzo(k)fluoranthene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 08/16/20 16:36 | 08/17/20 16:03 | 207-08-9  |      |
| Chrysene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 08/16/20 16:36 | 08/17/20 16:03 | 218-01-9  |      |
| Dibenz(a,h)anthracene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 08/16/20 16:36 | 08/17/20 16:03 | 53-70-3   |      |
| Fluoranthene   | 1.3     | ug/L  | 1.0    | 1.0   | 1  | 08/16/20 16:36 | 08/17/20 16:03 | 206-44-0  |      |
| Fluorene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 08/16/20 16:36 | 08/17/20 16:03 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 08/16/20 16:36 | 08/17/20 16:03 | 193-39-5  |      |
| 2-Methylnaphthalene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 08/16/20 16:36 | 08/17/20 16:03 | 91-57-6   |      |
| Naphthalene  | 5.3     | ug/L  | 5.0    | 5.0   | 1  | 08/16/20 16:36 | 08/17/20 16:03 | 91-20-3   |      |
| Phenanthrene   | 4.4     | ug/L  | 2.0    | 2.0   | 1  | 08/16/20 16:36 | 08/17/20 16:03 | 85-01-8   |      |
| Pyrene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 08/16/20 16:36 | 08/17/20 16:03 | 129-00-0  |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)   | 55      | %     | 32-107 |       | 1  | 08/16/20 16:36 | 08/17/20 16:03 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 70      | %     | 29-143 |       | 1  | 08/16/20 16:36 | 08/17/20 16:03 | 1718-51-0 |      |
| <b>8270 SVOC Combo Water</b>                                       |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3510        |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                            |         |       |        |       |    |                |                |           |      |
| 4-Bromophenylphenyl ether  | <3.6    | ug/L  | 10.0   | 3.6   | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 101-55-3  |      |
| Butylbenzylphthalate   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 85-68-7   |      |
| Carbazole  | 11.4    | ug/L  | 10.0   | 10.0  | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 86-74-8   |      |
| 4-Chloro-3-methylphenol  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane   | <3.8    | ug/L  | 10.0   | 3.8   | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 111-91-1  |      |
| bis(2-Chloroethyl) ether   | <2.2    | ug/L  | 5.0    | 2.2   | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                                       | <3.9    | ug/L  | 10.0   | 3.9   | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 108-60-1  |      |
| 2-Chloronaphthalene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 91-58-7   |      |
| 2-Chlorophenol   | <10.0   | ug/L  | 10.0   | 10.0  | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether   | <2.9    | ug/L  | 10.0   | 2.9   | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 7005-72-3 |      |
| Dibenzofuran   | <4.0    | ug/L  | 5.0    | 4.0   | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 132-64-9  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50264929

**Sample: Dup**      **Lab ID: 50264929003**      Collected: 08/13/20 00:00      Received: 08/14/20 13:50      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC Combo Water</b>                                |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3510 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| 2,4-Dichlorophenol  | <10.0   | ug/L  | 10.0   | 10.0 | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 120-83-2  |      |
| Diethylphthalate  | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 84-66-2   |      |
| 2,4-Dimethylphenol  | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 105-67-9  |      |
| Dimethylphthalate   | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 131-11-3  |      |
| Di-n-butylphthalate   | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                                  | <20.0   | ug/L  | 20.0   | 20.0 | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 534-52-1  |      |
| 2,4-Dinitrophenol   | <3.9    | ug/L  | 50.0   | 3.9  | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 51-28-5   |      |
| 2,4-Dinitrotoluene  | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 121-14-2  |      |
| 2,6-Dinitrotoluene  | <3.4    | ug/L  | 5.0    | 3.4  | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 606-20-2  |      |
| Di-n-octylphthalate   | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                       | <3.7    | ug/L  | 10.0   | 3.7  | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate                                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 117-81-7  |      |
| Hexachloro-1,3-butadiene                                    | <3.0    | ug/L  | 5.0    | 3.0  | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 87-68-3   |      |
| Hexachlorobenzene   | <2.7    | ug/L  | 5.0    | 2.7  | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                   | <25.0   | ug/L  | 25.0   | 25.0 | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 77-47-4   |      |
| Hexachloroethane  | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 67-72-1   |      |
| Isophorone  | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 78-59-1   |      |
| 2-Methylphenol(o-Cresol)                                    | <10.0   | ug/L  | 10.0   | 10.0 | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                                | <20.0   | ug/L  | 20.0   | 20.0 | 1  | 08/16/20 16:36 | 08/17/20 16:43 |           |      |
| 2-Nitroaniline  | <5.8    | ug/L  | 10.0   | 5.8  | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 88-74-4   |      |
| 3-Nitroaniline  | <5.0    | ug/L  | 10.0   | 5.0  | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 99-09-2   |      |
| 4-Nitroaniline  | <4.9    | ug/L  | 10.0   | 4.9  | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 100-01-6  |      |
| Nitrobenzene  | <3.0    | ug/L  | 5.0    | 3.0  | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 98-95-3   |      |
| 2-Nitrophenol   | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 88-75-5   |      |
| 4-Nitrophenol   | <6.0    | ug/L  | 50.0   | 6.0  | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 100-02-7  | L1   |
| N-Nitrosodimethylamine                                      | <2.9    | ug/L  | 10.0   | 2.9  | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                      | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 86-30-6   |      |
| Pentachlorophenol   | <1.9    | ug/L  | 20.0   | 1.9  | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 87-86-5   |      |
| Phenol  | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 108-95-2  |      |
| 1,2,4-Trichlorobenzene                                      | <1.1    | ug/L  | 10.0   | 1.1  | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                       | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                       | <4.0    | ug/L  | 5.0    | 4.0  | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 88-06-2   |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)   | 71      | %     | 37-125 |      | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 4165-60-0 |      |
| Phenol-d5 (S)   | 40      | %     | 10-65  |      | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 4165-62-2 |      |
| 2-Fluorophenol (S)  | 51      | %     | 13-81  |      | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                    | 83      | %     | 43-135 |      | 1  | 08/16/20 16:36 | 08/17/20 16:43 | 118-79-6  |      |

**8260C SIM Volatile Organics**

Analytical Method: EPA 8260C SIM/5030C

Pace Analytical Services - Melville

|                            |        |      |        |       |   |  |                |           |  |
|----------------------------|--------|------|--------|-------|---|--|----------------|-----------|--|
| 1,4-Dioxane (p-Dioxane)    | <0.090 | ug/L | 0.20   | 0.090 | 1 |  | 08/25/20 22:43 | 123-91-1  |  |
| <b>Surrogates</b>          |        |      |        |       |   |  |                |           |  |
| 1,2-Dichlorobenzene-d4 (S) | 84     | %    | 60-140 |       | 1 |  | 08/25/20 22:43 | 2199-69-1 |  |
| 4-Bromofluorobenzene (S)   | 114    | %    | 79-124 |       | 1 |  | 08/25/20 22:43 | 460-00-4  |  |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

**Sample: Dup**      **Lab ID: 50264929003**      Collected: 08/13/20 00:00      Received: 08/14/20 13:50      Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| Acetone                                 | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 08/22/20 01:29 | 67-64-1    |      |
| Acrylonitrile                           | <2.0    | ug/L  | 2.0  | 2.0  | 1  |          | 08/22/20 01:29 | 107-13-1   |      |
| tert-Amylmethyl ether                   | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 01:29 | 994-05-8   | N2   |
| Benzene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 01:29 | 71-43-2    |      |
| Bromobenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 01:29 | 108-86-1   |      |
| Bromochloromethane                      | <0.22   | ug/L  | 1.0  | 0.22 | 1  |          | 08/22/20 01:29 | 74-97-5    |      |
| Bromodichloromethane                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 01:29 | 75-27-4    |      |
| Bromoform                               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 01:29 | 75-25-2    |      |
| Bromomethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 01:29 | 74-83-9    |      |
| 2-Butanone (MEK)                        | <25.0   | ug/L  | 25.0 | 25.0 | 1  |          | 08/22/20 01:29 | 78-93-3    |      |
| tert-Butyl Alcohol                      | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 08/22/20 01:29 | 75-65-0    |      |
| n-Butylbenzene                          | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 01:29 | 104-51-8   |      |
| sec-Butylbenzene                        | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 01:29 | 135-98-8   |      |
| tert-Butylbenzene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 01:29 | 98-06-6    |      |
| Carbon disulfide                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 01:29 | 75-15-0    |      |
| Carbon tetrachloride                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 01:29 | 56-23-5    |      |
| Chlorobenzene                           | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 01:29 | 108-90-7   |      |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 01:29 | 75-00-3    |      |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 01:29 | 67-66-3    |      |
| Chloromethane                           | 23.6    | ug/L  | 5.0  | 5.0  | 1  |          | 08/24/20 14:15 | 74-87-3    | L1   |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 08/22/20 01:29 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 08/22/20 01:29 | 96-12-8    |      |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 01:29 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 08/22/20 01:29 | 106-93-4   |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 01:29 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 01:29 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 01:29 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 01:29 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.40   | ug/L  | 100  | 0.40 | 1  |          | 08/22/20 01:29 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 01:29 | 75-71-8    |      |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 01:29 | 75-34-3    |      |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 01:29 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 01:29 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 01:29 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 01:29 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 01:29 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 08/22/20 01:29 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 08/22/20 01:29 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 01:29 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 01:29 | 108-20-3   | N2   |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 08/22/20 01:29 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 01:29 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 08/22/20 01:29 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 08/22/20 01:29 | 591-78-6   |      |
| Iodomethane                             | <0.51   | ug/L  | 5.0  | 0.51 | 1  |          | 08/22/20 01:29 | 74-88-4    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

**Sample: Dup**      **Lab ID: 50264929003**      Collected: 08/13/20 00:00      Received: 08/14/20 13:50      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>                                     |         |       |        |      |    |                |                |             |      |
| Analytical Method: EPA 5030B/8260                             |         |       |        |      |    |                |                |             |      |
| Pace Analytical Services - Indianapolis                       |         |       |        |      |    |                |                |             |      |
| Isopropylbenzene (Cumene)                                     | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 08/22/20 01:29 | 98-82-8     |      |
| p-Isopropyltoluene  | <0.11   | ug/L  | 1.0    | 0.11 | 1  |                | 08/22/20 01:29 | 99-87-6     |      |
| Methylene Chloride  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 08/22/20 01:29 | 75-09-2     |      |
| 2-Methylnaphthalene   | <5.0    | ug/L  | 20.0   | 5.0  | 1  |                | 08/22/20 01:29 | 91-57-6     |      |
| 4-Methyl-2-pentanone (MIBK)                                   | <50.0   | ug/L  | 50.0   | 50.0 | 1  |                | 08/22/20 01:29 | 108-10-1    |      |
| Methyl-tert-butyl ether                                       | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 08/22/20 01:29 | 1634-04-4   |      |
| Naphthalene   | 10.1    | ug/L  | 5.0    | 5.0  | 1  |                | 08/22/20 01:29 | 91-20-3     |      |
| n-Propylbenzene   | <100    | ug/L  | 100    | 100  | 1  |                | 08/22/20 01:29 | 103-65-1    |      |
| Styrene   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 08/22/20 01:29 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane                                     | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 08/22/20 01:29 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane                                     | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 08/22/20 01:29 | 79-34-5     |      |
| Tetrachloroethene   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 08/22/20 01:29 | 127-18-4    |      |
| Tetrahydrofuran   | <90.0   | ug/L  | 90.0   | 90.0 | 1  |                | 08/22/20 01:29 | 109-99-9    | N2   |
| Toluene   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 08/22/20 01:29 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 08/22/20 01:29 | 87-61-6     | L1   |
| 1,2,4-Trichlorobenzene  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 08/22/20 01:29 | 120-82-1    |      |
| 1,1,1-Trichloroethane   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 08/22/20 01:29 | 71-55-6     |      |
| 1,1,2-Trichloroethane   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 08/22/20 01:29 | 79-00-5     |      |
| Trichloroethene   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 08/22/20 01:29 | 79-01-6     |      |
| Trichlorofluoromethane  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |                | 08/22/20 01:29 | 75-69-4     |      |
| 1,2,3-Trichloropropane  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 08/22/20 01:29 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 08/22/20 01:29 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |                | 08/22/20 01:29 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |                | 08/22/20 01:29 | 108-67-8    |      |
| Vinyl chloride  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 08/22/20 01:29 | 75-01-4     | L1   |
| m&p-Xylene  | <0.24   | ug/L  | 2.0    | 0.24 | 1  |                | 08/22/20 01:29 | 179601-23-1 |      |
| o-Xylene  | <0.16   | ug/L  | 1.0    | 0.16 | 1  |                | 08/22/20 01:29 | 95-47-6     |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |             |      |
| 4-Bromofluorobenzene (S)                                      | 98      | %     | 85-116 |      | 1  |                | 08/22/20 01:29 | 460-00-4    |      |
| Dibromofluoromethane (S)                                      | 101     | %     | 75-120 |      | 1  |                | 08/22/20 01:29 | 1868-53-7   |      |
| Toluene-d8 (S)  | 96      | %     | 83-111 |      | 1  |                | 08/22/20 01:29 | 2037-26-5   |      |
| <b>9012 Cyanide, Total</b>                                    |         |       |        |      |    |                |                |             |      |
| Analytical Method: EPA 9012      Preparation Method: EPA 9012 |         |       |        |      |    |                |                |             |      |
| Pace Analytical Services - Indianapolis                       |         |       |        |      |    |                |                |             |      |
| Cyanide   | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 08/17/20 09:38 | 08/18/20 10:17 | 57-12-5     |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

**Sample: MW-132 (5.5-6.5) Lab ID: 50264929004** Collected: 08/12/20 10:06 Received: 08/14/20 13:50 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results  | Units | PQL     | MDL    | DF  | Prepared       | Analyzed       | CAS No.    | Qual |
|---|----------|-------|---------|--------|-----|----------------|----------------|------------|------|
| <b>8082 GCS PCB Solids</b>                                |          |       |         |        |     |                |                |            |      |
| Analytical Method: EPA 8082 Preparation Method: EPA 3546  |          |       |         |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                   |          |       |         |        |     |                |                |            |      |
| PCB-1016 (Aroclor 1016)                                   | <359     | ug/kg | 359     | 359    | 1   | 08/19/20 12:15 | 08/20/20 14:27 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)                                   | <359     | ug/kg | 359     | 359    | 1   | 08/19/20 12:15 | 08/20/20 14:27 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)                                   | <359     | ug/kg | 359     | 359    | 1   | 08/19/20 12:15 | 08/20/20 14:27 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)                                   | <359     | ug/kg | 359     | 359    | 1   | 08/19/20 12:15 | 08/20/20 14:27 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)                                   | <359     | ug/kg | 359     | 359    | 1   | 08/19/20 12:15 | 08/20/20 14:27 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)                                   | <359     | ug/kg | 359     | 359    | 1   | 08/19/20 12:15 | 08/20/20 14:27 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)                                   | <359     | ug/kg | 359     | 359    | 1   | 08/19/20 12:15 | 08/20/20 14:27 | 11096-82-5 |      |
| PCB-1262 (Aroclor 1262)                                   | <359     | ug/kg | 359     | 359    | 1   | 08/19/20 12:15 | 08/20/20 14:27 | 37324-23-5 | N2   |
| PCB-1268 (Aroclor 1268)                                   | <359     | ug/kg | 359     | 359    | 1   | 08/19/20 12:15 | 08/20/20 14:27 | 11100-14-4 | N2   |
| <b>Surrogates</b>   |          |       |         |        |     |                |                |            |      |
| Tetrachloro-m-xylene (S)                                  | 59       | %     | 25-123  |        | 1   | 08/19/20 12:15 | 08/20/20 14:27 | 877-09-8   |      |
| <b>6010 MET ICP</b>                                       |          |       |         |        |     |                |                |            |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050  |          |       |         |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                   |          |       |         |        |     |                |                |            |      |
| Antimony  | <1000    | ug/kg | 1000    | 1000   | 1   | 08/20/20 06:11 | 08/20/20 23:10 | 7440-36-0  |      |
| Arsenic   | 5010     | ug/kg | 2010    | 2010   | 1   | 08/20/20 06:11 | 08/20/20 23:10 | 7440-38-2  |      |
| Barium  | 75400    | ug/kg | 1000    | 1000   | 1   | 08/20/20 06:11 | 08/20/20 23:10 | 7440-39-3  |      |
| Beryllium   | <502     | ug/kg | 502     | 502    | 1   | 08/20/20 06:11 | 08/20/20 23:10 | 7440-41-7  |      |
| Boron   | 11500    | ug/kg | 8020    | 8020   | 1   | 08/20/20 06:11 | 08/20/20 23:10 | 7440-42-8  |      |
| Calcium   | 61200000 | ug/kg | 2510000 | 328000 | 50  | 08/20/20 06:11 | 08/21/20 00:11 | 7440-70-2  |      |
| Chromium  | 14200    | ug/kg | 2010    | 2010   | 1   | 08/20/20 06:11 | 08/20/20 23:10 | 7440-47-3  |      |
| Copper  | 25000    | ug/kg | 1000    | 1000   | 1   | 08/20/20 06:11 | 08/20/20 23:10 | 7440-50-8  |      |
| Iron  | 10100000 | ug/kg | 25100   | 7620   | 1   | 08/20/20 06:11 | 08/20/20 23:10 | 7439-89-6  |      |
| Lead  | 29800    | ug/kg | 10000   | 10000  | 1   | 08/20/20 06:11 | 08/20/20 23:10 | 7439-92-1  |      |
| Magnesium   | 8760000  | ug/kg | 25100   | 4010   | 1   | 08/20/20 06:11 | 08/20/20 23:10 | 7439-95-4  |      |
| Manganese   | 179000   | ug/kg | 1000    | 1000   | 1   | 08/20/20 06:11 | 08/20/20 23:10 | 7439-96-5  |      |
| Molybdenum  | 2220     | ug/kg | 1000    | 1000   | 1   | 08/20/20 06:11 | 08/20/20 23:10 | 7439-98-7  |      |
| Nickel  | 10400    | ug/kg | 1000    | 1000   | 1   | 08/20/20 06:11 | 08/20/20 23:10 | 7440-02-0  |      |
| Potassium   | 786000   | ug/kg | 50200   | 5860   | 1   | 08/20/20 06:11 | 08/20/20 23:10 | 7440-09-7  |      |
| Sodium  | 376000   | ug/kg | 25100   | 13600  | 1   | 08/20/20 06:11 | 08/20/20 23:10 | 7440-23-5  |      |
| Strontium   | 75600    | ug/kg | 5020    | 5020   | 1   | 08/20/20 06:11 | 08/20/20 23:10 | 7440-24-6  |      |
| Vanadium  | 14900    | ug/kg | 1000    | 1000   | 1   | 08/20/20 06:11 | 08/20/20 23:10 | 7440-62-2  |      |
| Zinc  | 116000   | ug/kg | 1000    | 1000   | 1   | 08/20/20 06:11 | 08/20/20 23:10 | 7440-66-6  |      |
| <b>6020 MET ICPMS</b>                                     |          |       |         |        |     |                |                |            |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B |          |       |         |        |     |                |                |            |      |
| Pace Analytical Services - Indianapolis                   |          |       |         |        |     |                |                |            |      |
| Aluminum  | 5780000  | ug/kg | 111000  | 111000 | 100 | 08/17/20 11:13 | 08/18/20 02:29 | 7429-90-5  |      |
| Cadmium   | 412      | ug/kg | 222     | 222    | 1   | 08/17/20 11:13 | 08/18/20 03:07 | 7440-43-9  |      |
| Cobalt  | <2780    | ug/kg | 2780    | 2780   | 5   | 08/17/20 11:13 | 08/18/20 04:35 | 7440-48-4  | D3   |
| Selenium  | <1110    | ug/kg | 1110    | 1110   | 5   | 08/17/20 11:13 | 08/18/20 04:35 | 7782-49-2  | D3   |
| Silver  | <111     | ug/kg | 111     | 111    | 1   | 08/17/20 11:13 | 08/18/20 03:07 | 7440-22-4  |      |
| Thallium  | <555     | ug/kg | 555     | 555    | 1   | 08/17/20 11:13 | 08/18/20 03:07 | 7440-28-0  |      |
| Titanium  | 394000   | ug/kg | 11100   | 2950   | 100 | 08/17/20 11:13 | 08/18/20 02:29 | 7440-32-6  | N2   |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50264929

Sample: MW-132 (5.5-6.5) Lab ID: 50264929004 Collected: 08/12/20 10:06 Received: 08/14/20 13:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters   | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|------|------|----|----------------|----------------|-----------|------|
| <b>7471 Mercury</b>                                      |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471 |         |       |      |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |      |      |    |                |                |           |      |
| Mercury  | 1090    | ug/kg | 121  | 95.7 | 1  | 08/20/20 01:01 | 08/20/20 10:12 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                 |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |      |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |      |      |    |                |                |           |      |
| Acenaphthene   | <369    | ug/kg | 369  | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 83-32-9   |      |
| Acenaphthylene   | <369    | ug/kg | 369  | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 208-96-8  |      |
| Anthracene   | 485     | ug/kg | 369  | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 120-12-7  |      |
| Benzo(a)anthracene                                       | 1490    | ug/kg | 369  | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 56-55-3   |      |
| Benzo(a)pyrene   | 1370    | ug/kg | 369  | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 50-32-8   |      |
| Benzo(b)fluoranthene                                     | 1750    | ug/kg | 369  | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 205-99-2  |      |
| Benzo(g,h,i)perylene                                     | 851     | ug/kg | 369  | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 191-24-2  |      |
| Benzo(k)fluoranthene                                     | 791     | ug/kg | 369  | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 207-08-9  |      |
| 4-Bromophenylphenyl ether                                | <369    | ug/kg | 369  | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 101-55-3  |      |
| Butylbenzylphthalate                                     | 42200   | ug/kg | 3690 | 3690 | 10 | 08/21/20 09:30 | 08/24/20 23:01 | 85-68-7   |      |
| Carbazole  | <369    | ug/kg | 369  | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                  | <313    | ug/kg | 369  | 313  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                               | <369    | ug/kg | 369  | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                 | <179    | ug/kg | 369  | 179  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                             | <369    | ug/kg | 369  | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 108-60-1  |      |
| 2-Chloronaphthalene                                      | <369    | ug/kg | 369  | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 91-58-7   |      |
| 2-Chlorophenol   | <369    | ug/kg | 369  | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                               | <369    | ug/kg | 369  | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 7005-72-3 |      |
| Chrysene   | 1480    | ug/kg | 369  | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                    | <369    | ug/kg | 369  | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 53-70-3   |      |
| Dibenzofuran   | <369    | ug/kg | 369  | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 132-64-9  |      |
| 2,4-Dichlorophenol                                       | <369    | ug/kg | 369  | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 120-83-2  |      |
| Diethylphthalate   | <369    | ug/kg | 369  | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 84-66-2   |      |
| 2,4-Dimethylphenol                                       | <369    | ug/kg | 369  | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 105-67-9  |      |
| Dimethylphthalate  | <369    | ug/kg | 369  | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 131-11-3  |      |
| Di-n-butylphthalate                                      | <369    | ug/kg | 369  | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                               | <929    | ug/kg | 929  | 929  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 534-52-1  |      |
| 2,4-Dinitrophenol  | <1790   | ug/kg | 1790 | 1790 | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 51-28-5   |      |
| 2,4-Dinitrotoluene                                       | <369    | ug/kg | 369  | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 121-14-2  |      |
| 2,6-Dinitrotoluene                                       | <99.1   | ug/kg | 369  | 99.1 | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 606-20-2  |      |
| Di-n-octylphthalate                                      | <369    | ug/kg | 369  | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                    | <1790   | ug/kg | 1790 | 1790 | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate                               | <369    | ug/kg | 369  | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 117-81-7  |      |
| Fluoranthene   | 3230    | ug/kg | 369  | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 206-44-0  |      |
| Fluorene   | <369    | ug/kg | 369  | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                 | <107    | ug/kg | 369  | 107  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 87-68-3   |      |
| Hexachlorobenzene  | <369    | ug/kg | 369  | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                | <1120   | ug/kg | 1120 | 1120 | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 77-47-4   |      |
| Hexachloroethane   | <369    | ug/kg | 369  | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                   | 718     | ug/kg | 369  | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 193-39-5  |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

**Sample: MW-132 (5.5-6.5)**      **Lab ID: 50264929004**      Collected: 08/12/20 10:06      Received: 08/14/20 13:50      Matrix: Solid  
*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                    |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| Isophorone  | <369    | ug/kg | 369    | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 78-59-1   |      |
| 2-Methylnaphthalene   | <369    | ug/kg | 369    | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                    | <1120   | ug/kg | 1120   | 1120 | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                                | <1120   | ug/kg | 1120   | 1120 | 1  | 08/21/20 09:30 | 08/24/20 15:37 |           |      |
| Naphthalene   | <369    | ug/kg | 369    | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 91-20-3   |      |
| 2-Nitroaniline  | <369    | ug/kg | 369    | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 88-74-4   |      |
| 3-Nitroaniline  | <369    | ug/kg | 369    | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 99-09-2   |      |
| 4-Nitroaniline  | <369    | ug/kg | 369    | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 100-01-6  |      |
| Nitrobenzene  | <369    | ug/kg | 369    | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 98-95-3   |      |
| 2-Nitrophenol   | <369    | ug/kg | 369    | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 88-75-5   |      |
| 4-Nitrophenol   | <1790   | ug/kg | 1790   | 1790 | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 100-02-7  |      |
| N-Nitrosodimethylamine                                      | <369    | ug/kg | 369    | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                                  | <369    | ug/kg | 369    | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                      | <369    | ug/kg | 369    | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 86-30-6   |      |
| Pentachlorophenol   | <1650   | ug/kg | 1790   | 1650 | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 87-86-5   |      |
| Phenanthrene  | 2130    | ug/kg | 369    | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 85-01-8   |      |
| Phenol  | <369    | ug/kg | 369    | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 108-95-2  |      |
| Pyrene  | 3040    | ug/kg | 369    | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                      | <369    | ug/kg | 369    | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                       | <369    | ug/kg | 369    | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                       | <369    | ug/kg | 369    | 369  | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 88-06-2   |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)   | 44      | %     | 26-96  |      | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 4165-60-0 |      |
| Phenol-d5 (S)   | 47      | %     | 32-93  |      | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 4165-62-2 |      |
| 2-Fluorophenol (S)  | 25      | %     | 24-95  |      | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                    | 5       | %     | 20-109 |      | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 118-79-6  | S0   |
| 2-Fluorobiphenyl (S)  | 47      | %     | 36-91  |      | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 61      | %     | 27-117 |      | 1  | 08/21/20 09:30 | 08/24/20 15:37 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                              |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                                 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| Acetone   | <902    | ug/kg | 902    | 902  | 1  |                | 08/22/20 02:02 | 67-64-1   |      |
| Acrylonitrile   | <90.2   | ug/kg | 90.2   | 90.2 | 1  |                | 08/22/20 02:02 | 107-13-1  |      |
| tert-Amylmethyl ether                                       | <225    | ug/kg | 225    | 225  | 1  |                | 08/22/20 02:02 | 994-05-8  | N2   |
| Benzene   | <45.1   | ug/kg | 45.1   | 45.1 | 1  |                | 08/22/20 02:02 | 71-43-2   |      |
| Bromobenzene  | <90.2   | ug/kg | 90.2   | 90.2 | 1  |                | 08/22/20 02:02 | 108-86-1  |      |
| Bromochloromethane  | <22.5   | ug/kg | 45.1   | 22.5 | 1  |                | 08/22/20 02:02 | 74-97-5   |      |
| Bromodichloromethane  | <90.2   | ug/kg | 90.2   | 90.2 | 1  |                | 08/22/20 02:02 | 75-27-4   |      |
| Bromoform   | <90.2   | ug/kg | 90.2   | 90.2 | 1  |                | 08/22/20 02:02 | 75-25-2   |      |
| Bromomethane  | <180    | ug/kg | 180    | 180  | 1  |                | 08/22/20 02:02 | 74-83-9   |      |
| 2-Butanone (MEK)  | <676    | ug/kg | 676    | 676  | 1  |                | 08/22/20 02:02 | 78-93-3   |      |
| tert-Butyl Alcohol  | <2250   | ug/kg | 2250   | 2250 | 1  |                | 08/22/20 02:02 | 75-65-0   |      |
| n-Butylbenzene  | <45.1   | ug/kg | 45.1   | 45.1 | 1  |                | 08/22/20 02:02 | 104-51-8  |      |
| sec-Butylbenzene  | <45.1   | ug/kg | 45.1   | 45.1 | 1  |                | 08/22/20 02:02 | 135-98-8  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

Sample: MW-132 (5.5-6.5) Lab ID: 50264929004 Collected: 08/12/20 10:06 Received: 08/14/20 13:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| tert-Butylbenzene              | <45.1   | ug/kg  | 45.1 | 45.1 | 1  |          | 08/22/20 02:02 | 98-06-6    |      |
| Carbon disulfide               | <225    | ug/kg  | 225  | 225  | 1  |          | 08/22/20 02:02 | 75-15-0    |      |
| Carbon tetrachloride           | <45.1   | ug/kg  | 45.1 | 45.1 | 1  |          | 08/22/20 02:02 | 56-23-5    |      |
| Chlorobenzene                  | <45.1   | ug/kg  | 45.1 | 45.1 | 1  |          | 08/22/20 02:02 | 108-90-7   |      |
| Chloroethane                   | <225    | ug/kg  | 225  | 225  | 1  |          | 08/22/20 02:02 | 75-00-3    |      |
| Chloroform                     | <45.1   | ug/kg  | 45.1 | 45.1 | 1  |          | 08/22/20 02:02 | 67-66-3    |      |
| Chloromethane                  | <225    | ug/kg  | 225  | 225  | 1  |          | 08/22/20 02:02 | 74-87-3    |      |
| Cyclohexane                    | <45.1   | ug/kg  | 45.1 | 45.1 | 1  |          | 08/22/20 02:02 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane    | <45.1   | ug/kg  | 45.1 | 45.1 | 1  |          | 08/22/20 02:02 | 96-12-8    |      |
| Dibromochloromethane           | <90.2   | ug/kg  | 90.2 | 90.2 | 1  |          | 08/22/20 02:02 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <45.1   | ug/kg  | 45.1 | 45.1 | 1  |          | 08/22/20 02:02 | 106-93-4   |      |
| Dibromomethane                 | <225    | ug/kg  | 225  | 225  | 1  |          | 08/22/20 02:02 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <90.2   | ug/kg  | 90.2 | 90.2 | 1  |          | 08/22/20 02:02 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <90.2   | ug/kg  | 90.2 | 90.2 | 1  |          | 08/22/20 02:02 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <90.2   | ug/kg  | 90.2 | 90.2 | 1  |          | 08/22/20 02:02 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <90.2   | ug/kg  | 90.2 | 90.2 | 1  |          | 08/22/20 02:02 | 110-57-6   |      |
| Dichlorodifluoromethane        | <225    | ug/kg  | 225  | 225  | 1  |          | 08/22/20 02:02 | 75-71-8    |      |
| 1,1-Dichloroethane             | <45.1   | ug/kg  | 45.1 | 45.1 | 1  |          | 08/22/20 02:02 | 75-34-3    |      |
| 1,2-Dichloroethane             | <45.1   | ug/kg  | 45.1 | 45.1 | 1  |          | 08/22/20 02:02 | 107-06-2   |      |
| 1,1-Dichloroethene             | <45.1   | ug/kg  | 45.1 | 45.1 | 1  |          | 08/22/20 02:02 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <45.1   | ug/kg  | 45.1 | 45.1 | 1  |          | 08/22/20 02:02 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <45.1   | ug/kg  | 45.1 | 45.1 | 1  |          | 08/22/20 02:02 | 156-60-5   |      |
| 1,2-Dichloropropane            | <45.1   | ug/kg  | 45.1 | 45.1 | 1  |          | 08/22/20 02:02 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <90.2   | ug/kg  | 90.2 | 90.2 | 1  |          | 08/22/20 02:02 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <90.2   | ug/kg  | 90.2 | 90.2 | 1  |          | 08/22/20 02:02 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <180    | ug/kg  | 180  | 180  | 1  |          | 08/22/20 02:02 | 60-29-7    |      |
| Diisopropyl ether              | <225    | ug/kg  | 225  | 225  | 1  |          | 08/22/20 02:02 | 108-20-3   | N2   |
| Ethylbenzene                   | <45.1   | ug/kg  | 45.1 | 45.1 | 1  |          | 08/22/20 02:02 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <225    | ug/kg  | 225  | 225  | 1  |          | 08/22/20 02:02 | 637-92-3   | N2   |
| Hexachloroethane               | <270    | ug/kg  | 270  | 270  | 1  |          | 08/22/20 02:02 | 67-72-1    | N2   |
| 2-Hexanone                     | <2250   | ug/kg  | 2250 | 2250 | 1  |          | 08/22/20 02:02 | 591-78-6   |      |
| Iodomethane                    | <90.2   | ug/kg  | 90.2 | 90.2 | 1  |          | 08/22/20 02:02 | 74-88-4    | L1   |
| Isopropylbenzene (Cumene)      | <225    | ug/kg  | 225  | 225  | 1  |          | 08/22/20 02:02 | 98-82-8    |      |
| p-Isopropyltoluene             | <22.5   | ug/kg  | 45.1 | 22.5 | 1  |          | 08/22/20 02:02 | 99-87-6    |      |
| Methylene Chloride             | <90.2   | ug/kg  | 90.2 | 90.2 | 1  |          | 08/22/20 02:02 | 75-09-2    |      |
| 2-Methylnaphthalene            | <298    | ug/kg  | 298  | 298  | 1  |          | 08/22/20 02:02 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)    | <2250   | ug/kg  | 2250 | 2250 | 1  |          | 08/22/20 02:02 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <225    | ug/kg  | 225  | 225  | 1  |          | 08/22/20 02:02 | 1634-04-4  |      |
| Naphthalene                    | <298    | ug/kg  | 298  | 298  | 1  |          | 08/22/20 02:02 | 91-20-3    |      |
| n-Propylbenzene                | <90.2   | ug/kg  | 90.2 | 90.2 | 1  |          | 08/22/20 02:02 | 103-65-1   |      |
| Styrene                        | <45.1   | ug/kg  | 45.1 | 45.1 | 1  |          | 08/22/20 02:02 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <90.2   | ug/kg  | 90.2 | 90.2 | 1  |          | 08/22/20 02:02 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane      | <45.1   | ug/kg  | 45.1 | 45.1 | 1  |          | 08/22/20 02:02 | 79-34-5    |      |
| Tetrachloroethene              | <45.1   | ug/kg  | 45.1 | 45.1 | 1  |          | 08/22/20 02:02 | 127-18-4   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

**Sample: MW-132 (5.5-6.5)**      **Lab ID: 50264929004**      Collected: 08/12/20 10:06      Received: 08/14/20 13:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b>          |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Tetrahydrofuran                         | <90.2   | ug/kg | 90.2   | 90.2 | 1  |          | 08/22/20 02:02 | 109-99-9    | N2   |
| Toluene                                 | <90.2   | ug/kg | 90.2   | 90.2 | 1  |          | 08/22/20 02:02 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <225    | ug/kg | 225    | 225  | 1  |          | 08/22/20 02:02 | 87-61-6     | L1   |
| 1,2,4-Trichlorobenzene                  | <225    | ug/kg | 225    | 225  | 1  |          | 08/22/20 02:02 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <45.1   | ug/kg | 45.1   | 45.1 | 1  |          | 08/22/20 02:02 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <45.1   | ug/kg | 45.1   | 45.1 | 1  |          | 08/22/20 02:02 | 79-00-5     |      |
| Trichloroethene                         | <45.1   | ug/kg | 45.1   | 45.1 | 1  |          | 08/22/20 02:02 | 79-01-6     |      |
| Trichlorofluoromethane                  | <90.2   | ug/kg | 90.2   | 90.2 | 1  |          | 08/22/20 02:02 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <90.2   | ug/kg | 90.2   | 90.2 | 1  |          | 08/22/20 02:02 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <225    | ug/kg | 225    | 225  | 1  |          | 08/22/20 02:02 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <90.2   | ug/kg | 90.2   | 90.2 | 1  |          | 08/22/20 02:02 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <90.2   | ug/kg | 90.2   | 90.2 | 1  |          | 08/22/20 02:02 | 108-67-8    |      |
| Vinyl chloride                          | <36.1   | ug/kg | 36.1   | 36.1 | 1  |          | 08/22/20 02:02 | 75-01-4     |      |
| m&p-Xylene                              | <22.5   | ug/kg | 45.1   | 22.5 | 1  |          | 08/22/20 02:02 | 179601-23-1 |      |
| o-Xylene                                | <22.5   | ug/kg | 45.1   | 22.5 | 1  |          | 08/22/20 02:02 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)                | 119     | %     | 62-137 |      | 1  |          | 08/22/20 02:02 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 110     | %     | 64-139 |      | 1  |          | 08/22/20 02:02 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)                | 115     | %     | 60-142 |      | 1  |          | 08/22/20 02:02 | 460-00-4    |      |
| <b>Percent Moisture</b>                 |         |       |        |      |    |          |                |             |      |
| Analytical Method: SM 2540G             |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Percent Moisture                        | 11.8    | %     | 0.10   | 0.10 | 1  |          | 08/19/20 14:23 |             | N2   |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

**Sample: MW-133 (3-4)**      **Lab ID: 50264929005**      Collected: 08/12/20 11:03      Received: 08/14/20 13:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results  | Units | PQL     | MDL    | DF  | Prepared       | Analyzed       | CAS No.   | Qual |
|---|----------|-------|---------|--------|-----|----------------|----------------|-----------|------|
| <b>6010 MET ICP</b>                                       |          |       |         |        |     |                |                |           |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050  |          |       |         |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |          |       |         |        |     |                |                |           |      |
| Antimony  | <985     | ug/kg | 985     | 985    | 1   | 08/20/20 06:11 | 08/20/20 23:12 | 7440-36-0 |      |
| Arsenic   | 4800     | ug/kg | 1970    | 1970   | 1   | 08/20/20 06:11 | 08/20/20 23:12 | 7440-38-2 |      |
| Barium  | 104000   | ug/kg | 985     | 985    | 1   | 08/20/20 06:11 | 08/20/20 23:12 | 7440-39-3 |      |
| Beryllium   | 574      | ug/kg | 492     | 492    | 1   | 08/20/20 06:11 | 08/20/20 23:12 | 7440-41-7 |      |
| Boron   | 12100    | ug/kg | 7880    | 7880   | 1   | 08/20/20 06:11 | 08/20/20 23:12 | 7440-42-8 |      |
| Calcium   | 56200000 | ug/kg | 2460000 | 322000 | 50  | 08/20/20 06:11 | 08/21/20 00:14 | 7440-70-2 |      |
| Chromium  | 17400    | ug/kg | 1970    | 1970   | 1   | 08/20/20 06:11 | 08/20/20 23:12 | 7440-47-3 |      |
| Copper  | 16000    | ug/kg | 985     | 985    | 1   | 08/20/20 06:11 | 08/20/20 23:12 | 7440-50-8 |      |
| Iron  | 7850000  | ug/kg | 24600   | 7480   | 1   | 08/20/20 06:11 | 08/20/20 23:12 | 7439-89-6 |      |
| Lead  | 48100    | ug/kg | 9850    | 9850   | 1   | 08/20/20 06:11 | 08/20/20 23:12 | 7439-92-1 |      |
| Magnesium   | 10400000 | ug/kg | 24600   | 3940   | 1   | 08/20/20 06:11 | 08/20/20 23:12 | 7439-95-4 |      |
| Manganese   | 218000   | ug/kg | 985     | 985    | 1   | 08/20/20 06:11 | 08/20/20 23:12 | 7439-96-5 |      |
| Molybdenum  | 1040     | ug/kg | 985     | 985    | 1   | 08/20/20 06:11 | 08/20/20 23:12 | 7439-98-7 |      |
| Nickel  | 10200    | ug/kg | 985     | 985    | 1   | 08/20/20 06:11 | 08/20/20 23:12 | 7440-02-0 |      |
| Potassium   | 980000   | ug/kg | 49200   | 5750   | 1   | 08/20/20 06:11 | 08/20/20 23:12 | 7440-09-7 |      |
| Sodium  | 482000   | ug/kg | 24600   | 13400  | 1   | 08/20/20 06:11 | 08/20/20 23:12 | 7440-23-5 |      |
| Strontium   | 71500    | ug/kg | 4920    | 4920   | 1   | 08/20/20 06:11 | 08/20/20 23:12 | 7440-24-6 |      |
| Vanadium  | 21300    | ug/kg | 985     | 985    | 1   | 08/20/20 06:11 | 08/20/20 23:12 | 7440-62-2 |      |
| Zinc  | 79600    | ug/kg | 985     | 985    | 1   | 08/20/20 06:11 | 08/20/20 23:12 | 7440-66-6 |      |
| <b>6020 MET ICPMS</b>                                     |          |       |         |        |     |                |                |           |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B |          |       |         |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |          |       |         |        |     |                |                |           |      |
| Aluminum  | 6450000  | ug/kg | 109000  | 109000 | 100 | 08/17/20 11:13 | 08/18/20 02:24 | 7429-90-5 |      |
| Cadmium   | 467      | ug/kg | 217     | 217    | 1   | 08/17/20 11:13 | 08/18/20 03:03 | 7440-43-9 |      |
| Cobalt  | <2710    | ug/kg | 2710    | 2710   | 5   | 08/17/20 11:13 | 08/18/20 04:30 | 7440-48-4 | D3   |
| Selenium  | <1090    | ug/kg | 1090    | 1090   | 5   | 08/17/20 11:13 | 08/18/20 04:30 | 7782-49-2 | D3   |
| Silver  | 789      | ug/kg | 109     | 109    | 1   | 08/17/20 11:13 | 08/18/20 03:03 | 7440-22-4 |      |
| Thallium  | <543     | ug/kg | 543     | 543    | 1   | 08/17/20 11:13 | 08/18/20 03:03 | 7440-28-0 |      |
| Titanium  | 359000   | ug/kg | 10900   | 2890   | 100 | 08/17/20 11:13 | 08/18/20 02:24 | 7440-32-6 | N2   |
| <b>7471 Mercury</b>                                       |          |       |         |        |     |                |                |           |      |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471  |          |       |         |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |          |       |         |        |     |                |                |           |      |
| Mercury   | 798      | ug/kg | 108     | 85.0   | 1   | 08/20/20 01:01 | 08/20/20 10:14 | 7439-97-6 |      |
| <b>8270 SVOC SS Soil</b>                                  |          |       |         |        |     |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546  |          |       |         |        |     |                |                |           |      |
| Pace Analytical Services - Indianapolis                   |          |       |         |        |     |                |                |           |      |
| Acenaphthene  | 5470     | ug/kg | 1790    | 1790   | 5   | 08/21/20 09:30 | 08/24/20 15:54 | 83-32-9   |      |
| Acenaphthylene  | <1790    | ug/kg | 1790    | 1790   | 5   | 08/21/20 09:30 | 08/24/20 15:54 | 208-96-8  |      |
| Anthracene  | 7580     | ug/kg | 1790    | 1790   | 5   | 08/21/20 09:30 | 08/24/20 15:54 | 120-12-7  |      |
| Benzo(a)anthracene  | 21100    | ug/kg | 1790    | 1790   | 5   | 08/21/20 09:30 | 08/24/20 15:54 | 56-55-3   |      |
| Benzo(a)pyrene  | 20400    | ug/kg | 1790    | 1790   | 5   | 08/21/20 09:30 | 08/24/20 15:54 | 50-32-8   |      |
| Benzo(b)fluoranthene                                      | 27200    | ug/kg | 8960    | 8960   | 25  | 08/21/20 09:30 | 08/24/20 23:18 | 205-99-2  |      |
| Benzo(g,h,i)perylene                                      | 13300    | ug/kg | 1790    | 1790   | 5   | 08/21/20 09:30 | 08/24/20 15:54 | 191-24-2  |      |
| Benzo(k)fluoranthene                                      | 10600    | ug/kg | 1790    | 1790   | 5   | 08/21/20 09:30 | 08/24/20 15:54 | 207-08-9  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

**Sample: MW-133 (3-4)**      **Lab ID: 50264929005**      Collected: 08/12/20 11:03      Received: 08/14/20 13:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                    |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |      |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |      |      |    |                |                |           |      |
| 4-Bromophenylphenyl ether                                   | <1790   | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 101-55-3  |      |
| Butylbenzylphthalate  | <1790   | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 85-68-7   |      |
| Carbazole   | 5010    | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                     | <1520   | ug/kg | 1790 | 1520 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                                  | <1790   | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                    | <869    | ug/kg | 1790 | 869  | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                                | <1790   | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 108-60-1  |      |
| 2-Chloronaphthalene   | <1790   | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 91-58-7   |      |
| 2-Chlorophenol  | <1790   | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                                  | <1790   | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 7005-72-3 |      |
| Chrysene  | 21800   | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                       | 3620    | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 53-70-3   |      |
| Dibenzofuran  | 2430    | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 132-64-9  |      |
| 2,4-Dichlorophenol  | <1790   | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 120-83-2  |      |
| Diethylphthalate  | <1790   | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 84-66-2   |      |
| 2,4-Dimethylphenol  | <1790   | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 105-67-9  |      |
| Dimethylphthalate   | <1790   | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 131-11-3  |      |
| Di-n-butylphthalate   | <1790   | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                                  | <4510   | ug/kg | 4510 | 4510 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 534-52-1  |      |
| 2,4-Dinitrophenol   | <8690   | ug/kg | 8690 | 8690 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 51-28-5   |      |
| 2,4-Dinitrotoluene  | <1790   | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 121-14-2  |      |
| 2,6-Dinitrotoluene  | <481    | ug/kg | 1790 | 481  | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 606-20-2  |      |
| Di-n-octylphthalate   | <1790   | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                       | <8690   | ug/kg | 8690 | 8690 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate                                  | <1790   | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 117-81-7  |      |
| Fluoranthene  | 53000   | ug/kg | 8960 | 8960 | 25 | 08/21/20 09:30 | 08/24/20 23:18 | 206-44-0  |      |
| Fluorene  | 4150    | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                    | <521    | ug/kg | 1790 | 521  | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 87-68-3   |      |
| Hexachlorobenzene   | <1790   | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                   | <5430   | ug/kg | 5430 | 5430 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 77-47-4   |      |
| Hexachloroethane  | <1790   | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                      | 11400   | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 193-39-5  |      |
| Isophorone  | <1790   | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 78-59-1   |      |
| 2-Methylnaphthalene   | <1790   | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                    | <5430   | ug/kg | 5430 | 5430 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                                | <5430   | ug/kg | 5430 | 5430 | 5  | 08/21/20 09:30 | 08/24/20 15:54 |           |      |
| Naphthalene   | 1960    | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 91-20-3   |      |
| 2-Nitroaniline  | <1790   | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 88-74-4   |      |
| 3-Nitroaniline  | <1790   | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 99-09-2   |      |
| 4-Nitroaniline  | <1790   | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 100-01-6  |      |
| Nitrobenzene  | <1790   | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 98-95-3   |      |
| 2-Nitrophenol   | <1790   | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 88-75-5   |      |
| 4-Nitrophenol   | <8690   | ug/kg | 8690 | 8690 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 100-02-7  |      |
| N-Nitrosodimethylamine                                      | <1790   | ug/kg | 1790 | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 62-75-9   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50264929

**Sample: MW-133 (3-4)**      **Lab ID: 50264929005**      Collected: 08/12/20 11:03      Received: 08/14/20 13:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                    |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| N-Nitroso-di-n-propylamine                                  | <1790   | ug/kg | 1790   | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                      | <1790   | ug/kg | 1790   | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 86-30-6   |      |
| Pentachlorophenol   | <7980   | ug/kg | 8690   | 7980 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 87-86-5   |      |
| Phenanthrene  | 38300   | ug/kg | 8960   | 8960 | 25 | 08/21/20 09:30 | 08/24/20 23:18 | 85-01-8   |      |
| Phenol  | <1790   | ug/kg | 1790   | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 108-95-2  |      |
| Pyrene  | 46900   | ug/kg | 8960   | 8960 | 25 | 08/21/20 09:30 | 08/24/20 23:18 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                      | <1790   | ug/kg | 1790   | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                       | <1790   | ug/kg | 1790   | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                       | <1790   | ug/kg | 1790   | 1790 | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 88-06-2   |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)   | 44      | %     | 26-96  |      | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 4165-60-0 |      |
| Phenol-d5 (S)   | 54      | %     | 32-93  |      | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 4165-62-2 |      |
| 2-Fluorophenol (S)  | 51      | %     | 24-95  |      | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                    | 33      | %     | 20-109 |      | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 118-79-6  |      |
| 2-Fluorobiphenyl (S)  | 52      | %     | 36-91  |      | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 66      | %     | 27-117 |      | 5  | 08/21/20 09:30 | 08/24/20 15:54 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                              |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8260                                 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| Acetone   | <802    | ug/kg | 802    | 802  | 1  |                | 08/22/20 02:35 | 67-64-1   |      |
| Acrylonitrile   | <80.2   | ug/kg | 80.2   | 80.2 | 1  |                | 08/22/20 02:35 | 107-13-1  |      |
| tert-Amylmethyl ether                                       | <201    | ug/kg | 201    | 201  | 1  |                | 08/22/20 02:35 | 994-05-8  | N2   |
| Benzene   | <40.1   | ug/kg | 40.1   | 40.1 | 1  |                | 08/22/20 02:35 | 71-43-2   |      |
| Bromobenzene  | <80.2   | ug/kg | 80.2   | 80.2 | 1  |                | 08/22/20 02:35 | 108-86-1  |      |
| Bromochloromethane  | <20.1   | ug/kg | 40.1   | 20.1 | 1  |                | 08/22/20 02:35 | 74-97-5   |      |
| Bromodichloromethane  | <80.2   | ug/kg | 80.2   | 80.2 | 1  |                | 08/22/20 02:35 | 75-27-4   |      |
| Bromoform   | <80.2   | ug/kg | 80.2   | 80.2 | 1  |                | 08/22/20 02:35 | 75-25-2   |      |
| Bromomethane  | <160    | ug/kg | 160    | 160  | 1  |                | 08/22/20 02:35 | 74-83-9   |      |
| 2-Butanone (MEK)  | <602    | ug/kg | 602    | 602  | 1  |                | 08/22/20 02:35 | 78-93-3   |      |
| tert-Butyl Alcohol  | <2010   | ug/kg | 2010   | 2010 | 1  |                | 08/22/20 02:35 | 75-65-0   |      |
| n-Butylbenzene  | <40.1   | ug/kg | 40.1   | 40.1 | 1  |                | 08/22/20 02:35 | 104-51-8  |      |
| sec-Butylbenzene  | <40.1   | ug/kg | 40.1   | 40.1 | 1  |                | 08/22/20 02:35 | 135-98-8  |      |
| tert-Butylbenzene   | <40.1   | ug/kg | 40.1   | 40.1 | 1  |                | 08/22/20 02:35 | 98-06-6   |      |
| Carbon disulfide  | <201    | ug/kg | 201    | 201  | 1  |                | 08/22/20 02:35 | 75-15-0   |      |
| Carbon tetrachloride  | <40.1   | ug/kg | 40.1   | 40.1 | 1  |                | 08/22/20 02:35 | 56-23-5   |      |
| Chlorobenzene   | <40.1   | ug/kg | 40.1   | 40.1 | 1  |                | 08/22/20 02:35 | 108-90-7  |      |
| Chloroethane  | <201    | ug/kg | 201    | 201  | 1  |                | 08/22/20 02:35 | 75-00-3   |      |
| Chloroform  | <40.1   | ug/kg | 40.1   | 40.1 | 1  |                | 08/22/20 02:35 | 67-66-3   |      |
| Chloromethane   | <201    | ug/kg | 201    | 201  | 1  |                | 08/22/20 02:35 | 74-87-3   |      |
| Cyclohexane   | <401    | ug/kg | 401    | 401  | 1  |                | 08/22/20 02:35 | 110-82-7  | N2   |
| 1,2-Dibromo-3-chloropropane                                 | <40.1   | ug/kg | 40.1   | 40.1 | 1  |                | 08/22/20 02:35 | 96-12-8   |      |
| Dibromochloromethane  | <80.2   | ug/kg | 80.2   | 80.2 | 1  |                | 08/22/20 02:35 | 124-48-1  |      |
| 1,2-Dibromoethane (EDB)                                     | <40.1   | ug/kg | 40.1   | 40.1 | 1  |                | 08/22/20 02:35 | 106-93-4  |      |
| Dibromomethane  | <201    | ug/kg | 201    | 201  | 1  |                | 08/22/20 02:35 | 74-95-3   |      |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

Sample: MW-133 (3-4) Lab ID: 50264929005 Collected: 08/12/20 11:03 Received: 08/14/20 13:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| 1,2-Dichlorobenzene            | <80.2   | ug/kg  | 80.2 | 80.2 | 1  |          | 08/22/20 02:35 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <80.2   | ug/kg  | 80.2 | 80.2 | 1  |          | 08/22/20 02:35 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <80.2   | ug/kg  | 80.2 | 80.2 | 1  |          | 08/22/20 02:35 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <80.2   | ug/kg  | 802  | 80.2 | 1  |          | 08/22/20 02:35 | 110-57-6   |      |
| Dichlorodifluoromethane        | <201    | ug/kg  | 201  | 201  | 1  |          | 08/22/20 02:35 | 75-71-8    |      |
| 1,1-Dichloroethane             | <40.1   | ug/kg  | 40.1 | 40.1 | 1  |          | 08/22/20 02:35 | 75-34-3    |      |
| 1,2-Dichloroethane             | <40.1   | ug/kg  | 40.1 | 40.1 | 1  |          | 08/22/20 02:35 | 107-06-2   |      |
| 1,1-Dichloroethene             | <40.1   | ug/kg  | 40.1 | 40.1 | 1  |          | 08/22/20 02:35 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <40.1   | ug/kg  | 40.1 | 40.1 | 1  |          | 08/22/20 02:35 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <40.1   | ug/kg  | 40.1 | 40.1 | 1  |          | 08/22/20 02:35 | 156-60-5   |      |
| 1,2-Dichloropropane            | <40.1   | ug/kg  | 40.1 | 40.1 | 1  |          | 08/22/20 02:35 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <80.2   | ug/kg  | 80.2 | 80.2 | 1  |          | 08/22/20 02:35 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <80.2   | ug/kg  | 80.2 | 80.2 | 1  |          | 08/22/20 02:35 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <160    | ug/kg  | 160  | 160  | 1  |          | 08/22/20 02:35 | 60-29-7    |      |
| Diisopropyl ether              | <201    | ug/kg  | 201  | 201  | 1  |          | 08/22/20 02:35 | 108-20-3   | N2   |
| Ethylbenzene                   | <40.1   | ug/kg  | 40.1 | 40.1 | 1  |          | 08/22/20 02:35 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <201    | ug/kg  | 201  | 201  | 1  |          | 08/22/20 02:35 | 637-92-3   | N2   |
| Hexachloroethane               | <241    | ug/kg  | 241  | 241  | 1  |          | 08/22/20 02:35 | 67-72-1    | N2   |
| 2-Hexanone                     | <2010   | ug/kg  | 2010 | 2010 | 1  |          | 08/22/20 02:35 | 591-78-6   |      |
| Iodomethane                    | <80.2   | ug/kg  | 802  | 80.2 | 1  |          | 08/22/20 02:35 | 74-88-4    | L1   |
| Isopropylbenzene (Cumene)      | <201    | ug/kg  | 201  | 201  | 1  |          | 08/22/20 02:35 | 98-82-8    |      |
| p-Isopropyltoluene             | <20.1   | ug/kg  | 40.1 | 20.1 | 1  |          | 08/22/20 02:35 | 99-87-6    |      |
| Methylene Chloride             | <80.2   | ug/kg  | 80.2 | 80.2 | 1  |          | 08/22/20 02:35 | 75-09-2    |      |
| 2-Methylnaphthalene            | <265    | ug/kg  | 265  | 265  | 1  |          | 08/22/20 02:35 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)    | <2010   | ug/kg  | 2010 | 2010 | 1  |          | 08/22/20 02:35 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <201    | ug/kg  | 201  | 201  | 1  |          | 08/22/20 02:35 | 1634-04-4  |      |
| Naphthalene                    | <265    | ug/kg  | 265  | 265  | 1  |          | 08/22/20 02:35 | 91-20-3    |      |
| n-Propylbenzene                | <80.2   | ug/kg  | 80.2 | 80.2 | 1  |          | 08/22/20 02:35 | 103-65-1   |      |
| Styrene                        | <40.1   | ug/kg  | 40.1 | 40.1 | 1  |          | 08/22/20 02:35 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <80.2   | ug/kg  | 80.2 | 80.2 | 1  |          | 08/22/20 02:35 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane      | <40.1   | ug/kg  | 40.1 | 40.1 | 1  |          | 08/22/20 02:35 | 79-34-5    |      |
| Tetrachloroethene              | <40.1   | ug/kg  | 40.1 | 40.1 | 1  |          | 08/22/20 02:35 | 127-18-4   |      |
| Tetrahydrofuran                | <802    | ug/kg  | 802  | 802  | 1  |          | 08/22/20 02:35 | 109-99-9   | N2   |
| Toluene                        | <80.2   | ug/kg  | 80.2 | 80.2 | 1  |          | 08/22/20 02:35 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene         | <201    | ug/kg  | 201  | 201  | 1  |          | 08/22/20 02:35 | 87-61-6    | L1   |
| 1,2,4-Trichlorobenzene         | <201    | ug/kg  | 201  | 201  | 1  |          | 08/22/20 02:35 | 120-82-1   |      |
| 1,1,1-Trichloroethane          | <40.1   | ug/kg  | 40.1 | 40.1 | 1  |          | 08/22/20 02:35 | 71-55-6    |      |
| 1,1,2-Trichloroethane          | <40.1   | ug/kg  | 40.1 | 40.1 | 1  |          | 08/22/20 02:35 | 79-00-5    |      |
| Trichloroethene                | <40.1   | ug/kg  | 40.1 | 40.1 | 1  |          | 08/22/20 02:35 | 79-01-6    |      |
| Trichlorofluoromethane         | <80.2   | ug/kg  | 80.2 | 80.2 | 1  |          | 08/22/20 02:35 | 75-69-4    |      |
| 1,2,3-Trichloropropane         | <80.2   | ug/kg  | 80.2 | 80.2 | 1  |          | 08/22/20 02:35 | 96-18-4    |      |
| 1,2,3-Trimethylbenzene         | <201    | ug/kg  | 201  | 201  | 1  |          | 08/22/20 02:35 | 526-73-8   | N2   |
| 1,2,4-Trimethylbenzene         | <80.2   | ug/kg  | 80.2 | 80.2 | 1  |          | 08/22/20 02:35 | 95-63-6    |      |
| 1,3,5-Trimethylbenzene         | <80.2   | ug/kg  | 80.2 | 80.2 | 1  |          | 08/22/20 02:35 | 108-67-8   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

**Sample: MW-133 (3-4)**      **Lab ID: 50264929005**      Collected: 08/12/20 11:03      Received: 08/14/20 13:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results    | Units  | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|------------|--|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b> |            | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Vinyl chloride                 | <20.1      | ug/kg  | 32.1   | 32.1 | 1  |          | 08/22/20 02:35 | 75-01-4     |      |
| m&p-Xylene                     | <20.1      | ug/kg  | 40.1   | 20.1 | 1  |          | 08/22/20 02:35 | 179601-23-1 |      |
| o-Xylene                       | <20.1      | ug/kg  | 40.1   | 20.1 | 1  |          | 08/22/20 02:35 | 95-47-6     |      |
| <b>Surrogates</b>              |            |  |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)       | 100        | %  | 62-137 |      | 1  |          | 08/22/20 02:35 | 1868-53-7   |      |
| Toluene-d8 (S)                 | 91         | %  | 64-139 |      | 1  |          | 08/22/20 02:35 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)       | 97         | %  | 60-142 |      | 1  |          | 08/22/20 02:35 | 460-00-4    |      |
| <b>Percent Moisture</b>        |            | Analytical Method: SM 2540G<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Percent Moisture               | <b>9.2</b> | %  | 0.10   | 0.10 | 1  |          | 08/19/20 14:23 |             | N2   |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

**Sample: MW-133 (10-11)**      **Lab ID: 50264929006**      Collected: 08/12/20 11:10      Received: 08/14/20 13:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters   | Results  | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|----------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>6010 MET ICP</b>                                      |          |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 |          |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |          |       |        |       |    |                |                |           |      |
| Antimony   | <1100    | ug/kg | 1100   | 1100  | 1  | 08/31/20 14:14 | 09/02/20 12:37 | 7440-36-0 |      |
| Arsenic  | 2410     | ug/kg | 2200   | 2200  | 1  | 08/31/20 14:14 | 09/02/20 12:37 | 7440-38-2 |      |
| Barium   | 38400    | ug/kg | 1100   | 1100  | 1  | 08/31/20 14:14 | 09/02/20 12:37 | 7440-39-3 |      |
| Beryllium  | <551     | ug/kg | 551    | 551   | 1  | 08/31/20 14:14 | 09/02/20 12:37 | 7440-41-7 |      |
| Boron  | <8820    | ug/kg | 8820   | 8820  | 1  | 08/31/20 14:14 | 09/02/20 12:37 | 7440-42-8 |      |
| Calcium  | 29700000 | ug/kg | 276000 | 36100 | 5  | 08/31/20 14:14 | 09/02/20 12:57 | 7440-70-2 |      |
| Chromium   | 7160     | ug/kg | 2200   | 2200  | 1  | 08/31/20 14:14 | 09/02/20 12:37 | 7440-47-3 |      |
| Copper   | 14500    | ug/kg | 1100   | 1100  | 1  | 08/31/20 14:14 | 09/02/20 12:37 | 7440-50-8 |      |
| Iron   | 4830000  | ug/kg | 27600  | 8380  | 1  | 08/31/20 14:14 | 09/02/20 12:37 | 7439-89-6 |      |
| Lead   | 35800    | ug/kg | 11000  | 11000 | 1  | 08/31/20 14:14 | 09/02/20 12:37 | 7439-92-1 |      |
| Magnesium  | 5650000  | ug/kg | 27600  | 4410  | 1  | 08/31/20 14:14 | 09/02/20 12:37 | 7439-95-4 |      |
| Manganese  | 126000   | ug/kg | 1100   | 1100  | 1  | 08/31/20 14:14 | 09/02/20 12:37 | 7439-96-5 |      |
| Molybdenum   | <1100    | ug/kg | 1100   | 1100  | 1  | 08/31/20 14:14 | 09/02/20 12:37 | 7439-98-7 |      |
| Nickel   | 4850     | ug/kg | 1100   | 1100  | 1  | 08/31/20 14:14 | 09/02/20 12:37 | 7440-02-0 |      |
| Potassium  | 489000   | ug/kg | 55100  | 6440  | 1  | 08/31/20 14:14 | 09/02/20 12:37 | 7440-09-7 |      |
| Sodium   | 106000   | ug/kg | 27600  | 15000 | 1  | 08/31/20 14:14 | 09/02/20 12:37 | 7440-23-5 |      |
| Strontium  | 35000    | ug/kg | 5510   | 5510  | 1  | 08/31/20 14:14 | 09/02/20 12:37 | 7440-24-6 |      |
| Vanadium   | 10600    | ug/kg | 1100   | 1100  | 1  | 08/31/20 14:14 | 09/02/20 12:37 | 7440-62-2 |      |
| Zinc   | 71400    | ug/kg | 1100   | 1100  | 1  | 08/31/20 14:14 | 09/02/20 12:37 | 7440-66-6 |      |

|   |         |       |        |        |     |                |                |           |    |
|---|---------|-------|--------|--------|-----|----------------|----------------|-----------|----|
| <b>6020 MET ICPMS</b>                                     |         |       |        |        |     |                |                |           |    |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050B |         |       |        |        |     |                |                |           |    |
| Pace Analytical Services - Indianapolis                   |         |       |        |        |     |                |                |           |    |
| Aluminum  | 3720000 | ug/kg | 113000 | 113000 | 100 | 08/26/20 07:54 | 08/27/20 06:45 | 7429-90-5 |    |
| Cadmium   | 372     | ug/kg | 227    | 227    | 1   | 08/26/20 07:54 | 08/27/20 09:11 | 7440-43-9 |    |
| Cobalt  | 1490    | ug/kg | 567    | 567    | 1   | 08/26/20 07:54 | 08/27/20 09:11 | 7440-48-4 |    |
| Selenium  | <1130   | ug/kg | 1130   | 1130   | 5   | 08/26/20 07:54 | 08/27/20 08:26 | 7782-49-2 | D3 |
| Silver  | <113    | ug/kg | 113    | 113    | 1   | 08/26/20 07:54 | 08/27/20 09:11 | 7440-22-4 |    |
| Thallium  | <567    | ug/kg | 567    | 567    | 1   | 08/26/20 07:54 | 08/27/20 09:11 | 7440-28-0 |    |
| Titanium  | 274000  | ug/kg | 11300  | 3020   | 100 | 08/26/20 07:54 | 08/27/20 06:45 | 7440-32-6 | N2 |

|  |     |       |     |      |   |                |                |           |    |
|--|-----|-------|-----|------|---|----------------|----------------|-----------|----|
| <b>7471 Mercury</b>                                      |     |       |     |      |   |                |                |           |    |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471 |     |       |     |      |   |                |                |           |    |
| Pace Analytical Services - Indianapolis                  |     |       |     |      |   |                |                |           |    |
| Mercury  | 249 | ug/kg | 121 | 95.8 | 1 | 09/10/20 11:23 | 09/11/20 10:41 | 7439-97-6 | H3 |

|  |       |       |      |      |    |                |                |          |  |
|--|-------|-------|------|------|----|----------------|----------------|----------|--|
| <b>8270 SVOC SS Soil</b>                                 |       |       |      |      |    |                |                |          |  |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |       |       |      |      |    |                |                |          |  |
| Pace Analytical Services - Indianapolis                  |       |       |      |      |    |                |                |          |  |
| Acenaphthene   | <3940 | ug/kg | 3940 | 3940 | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 83-32-9  |  |
| Acenaphthylene   | <3940 | ug/kg | 3940 | 3940 | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 208-96-8 |  |
| Anthracene   | 5700  | ug/kg | 3940 | 3940 | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 120-12-7 |  |
| Benzo(a)anthracene                                       | 16100 | ug/kg | 3940 | 3940 | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 56-55-3  |  |
| Benzo(a)pyrene   | 14500 | ug/kg | 3940 | 3940 | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 50-32-8  |  |
| Benzo(b)fluoranthene                                     | 20500 | ug/kg | 3940 | 3940 | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 205-99-2 |  |
| Benzo(g,h,i)perylene                                     | 8410  | ug/kg | 3940 | 3940 | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 191-24-2 |  |
| Benzo(k)fluoranthene                                     | 6710  | ug/kg | 3940 | 3940 | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 207-08-9 |  |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

Sample: MW-133 (10-11) Lab ID: 50264929006 Collected: 08/12/20 11:10 Received: 08/14/20 13:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters   | Results | Units | PQL   | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|-------|-------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                 |         |       |       |       |    |                |                |           |      |
| Analytical Method: EPA 8270 Preparation Method: EPA 3546 |         |       |       |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                  |         |       |       |       |    |                |                |           |      |
| 4-Bromophenylphenyl ether                                | <3940   | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 101-55-3  |      |
| Butylbenzylphthalate                                     | 43500   | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 85-68-7   |      |
| Carbazole  | <3940   | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 86-74-8   |      |
| 4-Chloro-3-methylphenol                                  | <3340   | ug/kg | 3940  | 3340  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane                               | <3940   | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 111-91-1  |      |
| bis(2-Chloroethyl) ether                                 | <1910   | ug/kg | 3940  | 1910  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                             | <3940   | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 108-60-1  |      |
| 2-Chloronaphthalene                                      | <3940   | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 91-58-7   |      |
| 2-Chlorophenol   | <3940   | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether                               | <3940   | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 7005-72-3 |      |
| Chrysene   | 15500   | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 218-01-9  |      |
| Dibenz(a,h)anthracene                                    | <3940   | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 53-70-3   |      |
| Dibenzofuran   | <3940   | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 132-64-9  |      |
| 2,4-Dichlorophenol                                       | <3940   | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 120-83-2  |      |
| Diethylphthalate   | <3940   | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 84-66-2   |      |
| 2,4-Dimethylphenol                                       | <3940   | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 105-67-9  |      |
| Dimethylphthalate  | <3940   | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 131-11-3  |      |
| Di-n-butylphthalate                                      | <3940   | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                               | <9900   | ug/kg | 9900  | 9900  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 534-52-1  |      |
| 2,4-Dinitrophenol  | <19100  | ug/kg | 19100 | 19100 | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 51-28-5   |      |
| 2,4-Dinitrotoluene                                       | <3940   | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 121-14-2  |      |
| 2,6-Dinitrotoluene                                       | <1060   | ug/kg | 3940  | 1060  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 606-20-2  |      |
| Di-n-octylphthalate                                      | 5080    | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                    | <19100  | ug/kg | 19100 | 19100 | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate                               | 5170    | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 117-81-7  |      |
| Fluoranthene   | 38500   | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 206-44-0  |      |
| Fluorene   | <3940   | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 86-73-7   |      |
| Hexachloro-1,3-butadiene                                 | <1140   | ug/kg | 3940  | 1140  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 87-68-3   |      |
| Hexachlorobenzene  | <3940   | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                | <11900  | ug/kg | 11900 | 11900 | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 77-47-4   |      |
| Hexachloroethane   | <3940   | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 67-72-1   |      |
| Indeno(1,2,3-cd)pyrene                                   | 7940    | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 193-39-5  |      |
| Isophorone   | <3940   | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 78-59-1   |      |
| 2-Methylnaphthalene                                      | <3940   | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 91-57-6   |      |
| 2-Methylphenol(o-Cresol)                                 | <11900  | ug/kg | 11900 | 11900 | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                             | <11900  | ug/kg | 11900 | 11900 | 10 | 08/25/20 22:50 | 08/27/20 15:14 |           |      |
| Naphthalene  | <3940   | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 91-20-3   |      |
| 2-Nitroaniline   | <3940   | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 88-74-4   |      |
| 3-Nitroaniline   | <3940   | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 99-09-2   |      |
| 4-Nitroaniline   | <3940   | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 100-01-6  |      |
| Nitrobenzene   | <3940   | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 98-95-3   |      |
| 2-Nitrophenol  | <3940   | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 88-75-5   |      |
| 4-Nitrophenol  | <19100  | ug/kg | 19100 | 19100 | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 100-02-7  |      |
| N-Nitrosodimethylamine                                   | <3940   | ug/kg | 3940  | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 62-75-9   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

**Sample: MW-133 (10-11)**      **Lab ID: 50264929006**      Collected: 08/12/20 11:10      Received: 08/14/20 13:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters  | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC SS Soil</b>                                    |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3546 |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |       |    |                |                |           |      |
| N-Nitroso-di-n-propylamine                                  | <3940   | ug/kg | 3940   | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                      | <3940   | ug/kg | 3940   | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 86-30-6   |      |
| Pentachlorophenol   | <17500  | ug/kg | 19100  | 17500 | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 87-86-5   |      |
| Phenanthrene  | 22100   | ug/kg | 3940   | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 85-01-8   |      |
| Phenol  | <3940   | ug/kg | 3940   | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 108-95-2  | ED   |
| Pyrene  | 25600   | ug/kg | 3940   | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 129-00-0  |      |
| 1,2,4-Trichlorobenzene                                      | <3940   | ug/kg | 3940   | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                       | <3940   | ug/kg | 3940   | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                       | <3940   | ug/kg | 3940   | 3940  | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 88-06-2   |      |
| <b>Surrogates</b>   |         |       |        |       |    |                |                |           |      |
| Nitrobenzene-d5 (S)   | 58      | %     | 26-96  |       | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 4165-60-0 |      |
| Phenol-d5 (S)   | 65      | %     | 32-93  |       | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 4165-62-2 |      |
| 2-Fluorophenol (S)  | 46      | %     | 24-95  |       | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                    | 19      | %     | 20-109 |       | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 118-79-6  | S4   |
| 2-Fluorobiphenyl (S)  | 63      | %     | 36-91  |       | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 82      | %     | 27-117 |       | 10 | 08/25/20 22:50 | 08/27/20 15:14 | 1718-51-0 |      |
| <b>8260MSV 5035S Med Level</b>                              |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8260                                 |         |       |        |       |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |       |    |                |                |           |      |
| Acetone   | <921    | ug/kg | 921    | 921   | 1  |                | 08/25/20 21:46 | 67-64-1   |      |
| Acrylonitrile   | <92.1   | ug/kg | 92.1   | 92.1  | 1  |                | 08/25/20 21:46 | 107-13-1  |      |
| tert-Amylmethyl ether                                       | <230    | ug/kg | 230    | 230   | 1  |                | 08/25/20 21:46 | 994-05-8  | N2   |
| Benzene   | <46.0   | ug/kg | 46.0   | 46.0  | 1  |                | 08/25/20 21:46 | 71-43-2   |      |
| Bromobenzene  | <92.1   | ug/kg | 92.1   | 92.1  | 1  |                | 08/25/20 21:46 | 108-86-1  |      |
| Bromochloromethane  | <23.0   | ug/kg | 46.0   | 23.0  | 1  |                | 08/25/20 21:46 | 74-97-5   |      |
| Bromodichloromethane  | <92.1   | ug/kg | 92.1   | 92.1  | 1  |                | 08/25/20 21:46 | 75-27-4   |      |
| Bromoform   | <92.1   | ug/kg | 92.1   | 92.1  | 1  |                | 08/25/20 21:46 | 75-25-2   |      |
| Bromomethane  | <184    | ug/kg | 184    | 184   | 1  |                | 08/25/20 21:46 | 74-83-9   |      |
| 2-Butanone (MEK)  | <690    | ug/kg | 690    | 690   | 1  |                | 08/25/20 21:46 | 78-93-3   |      |
| tert-Butyl Alcohol  | <2300   | ug/kg | 2300   | 2300  | 1  |                | 08/25/20 21:46 | 75-65-0   |      |
| n-Butylbenzene  | <46.0   | ug/kg | 46.0   | 46.0  | 1  |                | 08/25/20 21:46 | 104-51-8  |      |
| sec-Butylbenzene  | <46.0   | ug/kg | 46.0   | 46.0  | 1  |                | 08/25/20 21:46 | 135-98-8  |      |
| tert-Butylbenzene   | <46.0   | ug/kg | 46.0   | 46.0  | 1  |                | 08/25/20 21:46 | 98-06-6   |      |
| Carbon disulfide  | <230    | ug/kg | 230    | 230   | 1  |                | 08/25/20 21:46 | 75-15-0   |      |
| Carbon tetrachloride  | <46.0   | ug/kg | 46.0   | 46.0  | 1  |                | 08/25/20 21:46 | 56-23-5   |      |
| Chlorobenzene   | <46.0   | ug/kg | 46.0   | 46.0  | 1  |                | 08/25/20 21:46 | 108-90-7  |      |
| Chloroethane  | <230    | ug/kg | 230    | 230   | 1  |                | 08/25/20 21:46 | 75-00-3   |      |
| Chloroform  | <46.0   | ug/kg | 46.0   | 46.0  | 1  |                | 08/25/20 21:46 | 67-66-3   |      |
| Chloromethane   | <230    | ug/kg | 230    | 230   | 1  |                | 08/25/20 21:46 | 74-87-3   | L1   |
| Cyclohexane   | <460    | ug/kg | 460    | 460   | 1  |                | 08/25/20 21:46 | 110-82-7  | N2   |
| 1,2-Dibromo-3-chloropropane                                 | <46.0   | ug/kg | 46.0   | 46.0  | 1  |                | 08/25/20 21:46 | 96-12-8   |      |
| Dibromochloromethane  | <92.1   | ug/kg | 92.1   | 92.1  | 1  |                | 08/25/20 21:46 | 124-48-1  |      |
| 1,2-Dibromoethane (EDB)                                     | <46.0   | ug/kg | 46.0   | 46.0  | 1  |                | 08/25/20 21:46 | 106-93-4  |      |
| Dibromomethane  | <230    | ug/kg | 230    | 230   | 1  |                | 08/25/20 21:46 | 74-95-3   |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50264929

Sample: MW-133 (10-11) Lab ID: 50264929006 Collected: 08/12/20 11:10 Received: 08/14/20 13:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters                     | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| 1,2-Dichlorobenzene            | <92.1   | ug/kg  | 92.1 | 92.1 | 1  |          | 08/25/20 21:46 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <92.1   | ug/kg  | 92.1 | 92.1 | 1  |          | 08/25/20 21:46 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <92.1   | ug/kg  | 92.1 | 92.1 | 1  |          | 08/25/20 21:46 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene    | <92.1   | ug/kg  | 92.1 | 92.1 | 1  |          | 08/25/20 21:46 | 110-57-6   |      |
| Dichlorodifluoromethane        | <230    | ug/kg  | 230  | 230  | 1  |          | 08/25/20 21:46 | 75-71-8    |      |
| 1,1-Dichloroethane             | <46.0   | ug/kg  | 46.0 | 46.0 | 1  |          | 08/25/20 21:46 | 75-34-3    |      |
| 1,2-Dichloroethane             | <46.0   | ug/kg  | 46.0 | 46.0 | 1  |          | 08/25/20 21:46 | 107-06-2   |      |
| 1,1-Dichloroethene             | <46.0   | ug/kg  | 46.0 | 46.0 | 1  |          | 08/25/20 21:46 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <46.0   | ug/kg  | 46.0 | 46.0 | 1  |          | 08/25/20 21:46 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <46.0   | ug/kg  | 46.0 | 46.0 | 1  |          | 08/25/20 21:46 | 156-60-5   |      |
| 1,2-Dichloropropane            | <46.0   | ug/kg  | 46.0 | 46.0 | 1  |          | 08/25/20 21:46 | 78-87-5    |      |
| cis-1,3-Dichloropropene        | <92.1   | ug/kg  | 92.1 | 92.1 | 1  |          | 08/25/20 21:46 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <92.1   | ug/kg  | 92.1 | 92.1 | 1  |          | 08/25/20 21:46 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)    | <184    | ug/kg  | 184  | 184  | 1  |          | 08/25/20 21:46 | 60-29-7    |      |
| Diisopropyl ether              | <230    | ug/kg  | 230  | 230  | 1  |          | 08/25/20 21:46 | 108-20-3   | N2   |
| Ethylbenzene                   | <46.0   | ug/kg  | 46.0 | 46.0 | 1  |          | 08/25/20 21:46 | 100-41-4   |      |
| Ethyl-tert-butyl ether         | <230    | ug/kg  | 230  | 230  | 1  |          | 08/25/20 21:46 | 637-92-3   | N2   |
| Hexachloroethane               | <276    | ug/kg  | 276  | 276  | 1  |          | 08/25/20 21:46 | 67-72-1    | N2   |
| 2-Hexanone                     | <2300   | ug/kg  | 2300 | 2300 | 1  |          | 08/25/20 21:46 | 591-78-6   |      |
| Iodomethane                    | <92.1   | ug/kg  | 92.1 | 92.1 | 1  |          | 08/25/20 21:46 | 74-88-4    | L1   |
| Isopropylbenzene (Cumene)      | <230    | ug/kg  | 230  | 230  | 1  |          | 08/25/20 21:46 | 98-82-8    |      |
| p-Isopropyltoluene             | <23.0   | ug/kg  | 46.0 | 23.0 | 1  |          | 08/25/20 21:46 | 99-87-6    |      |
| Methylene Chloride             | <92.1   | ug/kg  | 92.1 | 92.1 | 1  |          | 08/25/20 21:46 | 75-09-2    |      |
| 2-Methylnaphthalene            | <304    | ug/kg  | 304  | 304  | 1  |          | 08/25/20 21:46 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)    | <2300   | ug/kg  | 2300 | 2300 | 1  |          | 08/25/20 21:46 | 108-10-1   |      |
| Methyl-tert-butyl ether        | <230    | ug/kg  | 230  | 230  | 1  |          | 08/25/20 21:46 | 1634-04-4  |      |
| Naphthalene                    | <304    | ug/kg  | 304  | 304  | 1  |          | 08/25/20 21:46 | 91-20-3    |      |
| n-Propylbenzene                | <92.1   | ug/kg  | 92.1 | 92.1 | 1  |          | 08/25/20 21:46 | 103-65-1   |      |
| Styrene                        | <46.0   | ug/kg  | 46.0 | 46.0 | 1  |          | 08/25/20 21:46 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane      | <92.1   | ug/kg  | 92.1 | 92.1 | 1  |          | 08/25/20 21:46 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane      | <46.0   | ug/kg  | 46.0 | 46.0 | 1  |          | 08/25/20 21:46 | 79-34-5    |      |
| Tetrachloroethene              | <46.0   | ug/kg  | 46.0 | 46.0 | 1  |          | 08/25/20 21:46 | 127-18-4   |      |
| Tetrahydrofuran                | <92.1   | ug/kg  | 92.1 | 92.1 | 1  |          | 08/25/20 21:46 | 109-99-9   | N2   |
| Toluene                        | <92.1   | ug/kg  | 92.1 | 92.1 | 1  |          | 08/25/20 21:46 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene         | <230    | ug/kg  | 230  | 230  | 1  |          | 08/25/20 21:46 | 87-61-6    | L1   |
| 1,2,4-Trichlorobenzene         | <230    | ug/kg  | 230  | 230  | 1  |          | 08/25/20 21:46 | 120-82-1   |      |
| 1,1,1-Trichloroethane          | <46.0   | ug/kg  | 46.0 | 46.0 | 1  |          | 08/25/20 21:46 | 71-55-6    |      |
| 1,1,2-Trichloroethane          | <46.0   | ug/kg  | 46.0 | 46.0 | 1  |          | 08/25/20 21:46 | 79-00-5    |      |
| Trichloroethene                | <46.0   | ug/kg  | 46.0 | 46.0 | 1  |          | 08/25/20 21:46 | 79-01-6    |      |
| Trichlorofluoromethane         | <92.1   | ug/kg  | 92.1 | 92.1 | 1  |          | 08/25/20 21:46 | 75-69-4    |      |
| 1,2,3-Trichloropropane         | <92.1   | ug/kg  | 92.1 | 92.1 | 1  |          | 08/25/20 21:46 | 96-18-4    |      |
| 1,2,3-Trimethylbenzene         | <230    | ug/kg  | 230  | 230  | 1  |          | 08/25/20 21:46 | 526-73-8   | N2   |
| 1,2,4-Trimethylbenzene         | <92.1   | ug/kg  | 92.1 | 92.1 | 1  |          | 08/25/20 21:46 | 95-63-6    |      |
| 1,3,5-Trimethylbenzene         | <92.1   | ug/kg  | 92.1 | 92.1 | 1  |          | 08/25/20 21:46 | 108-67-8   |      |

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

**Sample: MW-133 (10-11)**      **Lab ID: 50264929006**      Collected: 08/12/20 11:10      Received: 08/14/20 13:50      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

| Parameters                     | Results | Units  | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|---------|--|--------|------|----|----------|----------------|-------------|------|
| <b>8260MSV 5035S Med Level</b> |         | Analytical Method: EPA 8260<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Vinyl chloride                 | <36.8   | ug/kg  | 36.8   | 36.8 | 1  |          | 08/25/20 21:46 | 75-01-4     |      |
| m&p-Xylene                     | <23.0   | ug/kg  | 46.0   | 23.0 | 1  |          | 08/25/20 21:46 | 179601-23-1 |      |
| o-Xylene                       | <23.0   | ug/kg  | 46.0   | 23.0 | 1  |          | 08/25/20 21:46 | 95-47-6     |      |
| <b>Surrogates</b>              |         |  |        |      |    |          |                |             |      |
| Dibromofluoromethane (S)       | 126     | %  | 62-137 |      | 1  |          | 08/25/20 21:46 | 1868-53-7   |      |
| Toluene-d8 (S)                 | 119     | %  | 64-139 |      | 1  |          | 08/25/20 21:46 | 2037-26-5   |      |
| 4-Bromofluorobenzene (S)       | 128     | %  | 60-142 |      | 1  |          | 08/25/20 21:46 | 460-00-4    |      |
| <b>Percent Moisture</b>        |         | Analytical Method: SM 2540G<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Percent Moisture               | 16.2    | %  | 0.10   | 0.10 | 1  |          | 08/24/20 15:47 |             | N2   |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

**Sample: MW-133 Composite**      **Lab ID: 50264929007**      Collected: 08/12/20 11:03      Received: 08/25/20 12:07      Matrix: Solid

*Results reported on a "wet-weight" basis*

| Parameters  | Results | Units | Report Limit | MDL    | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------------|--------|----|----------------|----------------|-----------|------|
| <b>6010 MET ICP, TCLP</b>   |         |       |              |        |    |                |                |           |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3010                        |         |       |              |        |    |                |                |           |      |
| Leachate Method/Date: EPA 1311; 08/26/20 14:40 Initial pH: 9.99; Final pH: 6.45 |         |       |              |        |    |                |                |           |      |
| Pace Analytical Services - Indianapolis   |         |       |              |        |    |                |                |           |      |
| Arsenic   | <0.10   | mg/L  | 0.10         | 0.050  | 1  | 08/30/20 15:19 | 08/31/20 10:45 | 7440-38-2 |      |
| Barium  | <5.0    | mg/L  | 5.0          | 0.25   | 1  | 08/30/20 15:19 | 08/31/20 10:45 | 7440-39-3 |      |
| Cadmium   | <0.050  | mg/L  | 0.050        | 0.025  | 1  | 08/30/20 15:19 | 08/31/20 10:45 | 7440-43-9 |      |
| Chromium  | <0.10   | mg/L  | 0.10         | 0.052  | 1  | 08/30/20 15:19 | 08/31/20 10:45 | 7440-47-3 |      |
| Lead  | <0.10   | mg/L  | 0.10         | 0.050  | 1  | 08/30/20 15:19 | 08/31/20 10:45 | 7439-92-1 |      |
| Selenium  | <0.10   | mg/L  | 0.10         | 0.050  | 1  | 08/30/20 15:19 | 08/31/20 10:45 | 7782-49-2 |      |
| Silver  | <0.10   | mg/L  | 0.10         | 0.050  | 1  | 08/30/20 15:19 | 08/31/20 10:45 | 7440-22-4 |      |
| <b>7470 Mercury, TCLP</b>   |         |       |              |        |    |                |                |           |      |
| Analytical Method: EPA 7470 Preparation Method: EPA 7470                        |         |       |              |        |    |                |                |           |      |
| Leachate Method/Date: EPA 1311; 08/26/20 14:40 Initial pH: 9.99; Final pH: 6.45 |         |       |              |        |    |                |                |           |      |
| Pace Analytical Services - Indianapolis   |         |       |              |        |    |                |                |           |      |
| Mercury   | <0.0020 | mg/L  | 0.0020       | 0.0010 | 1  | 08/28/20 11:12 | 08/31/20 09:45 | 7439-97-6 |      |

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

QC Batch: 577485 Analysis Method: EPA 8015 Alcohol-Glycol  
QC Batch Method: EPA 8015 Alcohol-Glycol Analysis Description: EPA 8015 Modified  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50264929002, 50264929003

METHOD BLANK: 2662762 Matrix: Water  
Associated Lab Samples: 50264929002, 50264929003

| Parameter | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Ethanol   | ug/L  | <1000        | 5000            | 1000 | 08/19/20 10:36 |            |
| Methanol  | ug/L  | <400         | 5000            | 400  | 08/19/20 10:36 |            |
| n-Butanol | ug/L  | <800         | 5000            | 800  | 08/19/20 10:36 |            |

LABORATORY CONTROL SAMPLE: 2662763

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Ethanol   | ug/L  | 50000       | 49900      | 100       | 69-128       |            |
| Methanol  | ug/L  | 50000       | 41000      | 82        | 73-118       |            |
| n-Butanol | ug/L  | 50000       | 48500      | 97        | 77-124       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2662866 2662867

| Parameter | Units | 50264942002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Ethanol   | ug/L  | ND                 | 50000          | 50000           | 53600     | 47500      | 107      | 95        | 64-132       | 12  | 20      |      |
| Methanol  | ug/L  | ND                 | 50000          | 50000           | 46300     | 40300      | 93       | 81        | 66-123       | 14  | 20      |      |
| n-Butanol | ug/L  | ND                 | 50000          | 50000           | 51700     | 45500      | 103      | 91        | 66-130       | 13  | 20      |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

QC Batch: 579037 Analysis Method: EPA 7470  
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury TCLP  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50264929007

METHOD BLANK: 2669761 Matrix: Water  
Associated Lab Samples: 50264929007

| Parameter | Units | Blank Result | Reporting Limit | MDL     | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|---------|----------------|------------|
| Mercury   | mg/L  | <0.00067     | 0.00067         | 0.00033 | 08/31/20 08:33 |            |

LABORATORY CONTROL SAMPLE: 2669762

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury   | mg/L  | 0.005       | 0.0047     | 94        | 80-120       |            |

MATRIX SPIKE SAMPLE: 2669763

| Parameter | Units | 50265049001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Mercury   | mg/L  | ND                 | 0.015       | 0.015     | 98       | 75-125       |            |

MATRIX SPIKE SAMPLE: 2669764

| Parameter | Units | 50265101001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Mercury   | mg/L  | ND                 | 0.015       | 0.014     | 96       | 75-125       |            |

MATRIX SPIKE SAMPLE: 2669765

| Parameter | Units | 50265433001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Mercury   | mg/L  | ND                 | 0.015       | 0.014     | 94       | 75-125       |            |

MATRIX SPIKE SAMPLE: 2669766

| Parameter | Units | 50265435001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Mercury   | mg/L  | ND                 | 0.015       | 0.011     | 70       | 75-125       | M0         |

MATRIX SPIKE SAMPLE: 2669767

| Parameter | Units | 50265579001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Mercury   | mg/L  | ND                 | 0.015       | 0.014     | 93       | 75-125       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2669768 |       |                       |                      |                       |              |               |             |              |                 |     |            | 2669769 |  |
|--|-------|-----------------------|----------------------|-----------------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|---------|--|
| Parameter                                      | Units | 50265654001<br>Result | MS<br>Spike<br>Conc. | MSD<br>Spike<br>Conc. | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | RPD | Max<br>RPD | Qual    |  |
| Mercury  | mg/L  | ND                    | 0.015                | 0.015                 | 0.015        | 0.014         | 99          | 92           | 75-125          | 7   | 20         |         |  |

| MATRIX SPIKE SAMPLE: 2669770 |       |                       |                |              |             |                 |            |  |  |  |  |
|------------------------------|-------|-----------------------|----------------|--------------|-------------|-----------------|------------|--|--|--|--|
| Parameter                    | Units | 50265531001<br>Result | Spike<br>Conc. | MS<br>Result | MS<br>% Rec | % Rec<br>Limits | Qualifiers |  |  |  |  |
| Mercury                      | mg/L  | 0.14                  | 0.015          | 0.16         | 180         | 75-125          | P6         |  |  |  |  |

| MATRIX SPIKE SAMPLE: 2669771 |       |                       |                |              |             |                 |            |  |  |  |  |
|------------------------------|-------|-----------------------|----------------|--------------|-------------|-----------------|------------|--|--|--|--|
| Parameter                    | Units | 50265533001<br>Result | Spike<br>Conc. | MS<br>Result | MS<br>% Rec | % Rec<br>Limits | Qualifiers |  |  |  |  |
| Mercury                      | mg/L  | ND                    | 0.015          | 0.015        | 99          | 75-125          |            |  |  |  |  |

| MATRIX SPIKE SAMPLE: 2669772 |       |                       |                |              |             |                 |            |  |  |  |  |
|------------------------------|-------|-----------------------|----------------|--------------|-------------|-----------------|------------|--|--|--|--|
| Parameter                    | Units | 50264929007<br>Result | Spike<br>Conc. | MS<br>Result | MS<br>% Rec | % Rec<br>Limits | Qualifiers |  |  |  |  |
| Mercury                      | mg/L  | <0.0020               | 0.015          | 0.015        | 99          | 75-125          |            |  |  |  |  |

| MATRIX SPIKE SAMPLE: 2669773 |       |                       |                |              |             |                 |            |  |  |  |  |
|------------------------------|-------|-----------------------|----------------|--------------|-------------|-----------------|------------|--|--|--|--|
| Parameter                    | Units | 50265582001<br>Result | Spike<br>Conc. | MS<br>Result | MS<br>% Rec | % Rec<br>Limits | Qualifiers |  |  |  |  |
| Mercury                      | mg/L  | ND                    | 0.015          | 0.014        | 95          | 75-125          |            |  |  |  |  |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

QC Batch: 577205 Analysis Method: EPA 7470  
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50264929001, 50264929002, 50264929003

METHOD BLANK: 2661532 Matrix: Water  
Associated Lab Samples: 50264929001, 50264929002, 50264929003

| Parameter | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Mercury   | ug/L  | <0.080       | 0.20            | 0.080 | 08/18/20 10:51 |            |

LABORATORY CONTROL SAMPLE: 2661533

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury   | ug/L  | 5           | 4.5        | 90        | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2661534 2661535

| Parameter | Units | 2661534            |                | 2661535         |           | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|------|
|           |       | 50264703001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result |          |           |              |        |         |      |
| Mercury   | ug/L  | ND                 | 5              | 5               | 4.8       | 4.9      | 97        | 98           | 75-125 | 1       | 20   |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50264929

QC Batch: 577532

Analysis Method: EPA 7471

QC Batch Method: EPA 7471

Analysis Description: 7471 Mercury

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50264929004, 50264929005

METHOD BLANK: 2663008

Matrix: Solid

Associated Lab Samples: 50264929004, 50264929005

| Parameter | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Mercury   | ug/kg | <77.2        | 97.7            | 77.2 | 08/20/20 09:56 |            |

LABORATORY CONTROL SAMPLE: 2663009

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury   | ug/kg | 493         | 490        | 99        | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2663010 2663011

| Parameter | Units | 2663010            |                | 2663011         |           | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|------|
|           |       | 50264824002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result |          |           |              |        |         |      |
| Mercury   | ug/kg | ND                 | 500            | 501             | 538       | 543      | 107       | 108          | 75-125 | 1       | 20   |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50264929

QC Batch: 580478

Analysis Method: EPA 7471

QC Batch Method: EPA 7471

Analysis Description: 7471 Mercury

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50264929006

METHOD BLANK: 2676641

Matrix: Solid

Associated Lab Samples: 50264929006

| Parameter | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Mercury   | ug/kg | <79.8        | 101             | 79.8 | 09/11/20 10:36 |            |

LABORATORY CONTROL SAMPLE: 2676642

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury   | ug/kg | 510         | 490        | 96        | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2676703 2676704

| Parameter | Units | 50266527009    |                 | 2676703   |            | 2676704  |           | % Rec Limits | RPD    | Max RPD | Qual |
|-----------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|--------|---------|------|
|           |       | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec |              |        |         |      |
| Mercury   | ug/kg | <0.062 mg/kg   | 640             | 597       | 677        | 639      | 103       | 104          | 75-125 | 6       | 20   |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

QC Batch: 577040 Analysis Method: EPA 6010  
QC Batch Method: EPA 3050 Analysis Description: 6010 MET  
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50264929004, 50264929005

METHOD BLANK: 2660968 Matrix: Solid

Associated Lab Samples: 50264929004, 50264929005

| Parameter  | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|------------|-------|--------------|-----------------|-------|----------------|------------|
| Antimony   | ug/kg | <1000        | 1000            | 1000  | 08/20/20 23:05 |            |
| Arsenic    | ug/kg | <2000        | 2000            | 2000  | 08/20/20 23:05 |            |
| Barium     | ug/kg | <1000        | 1000            | 1000  | 08/20/20 23:05 |            |
| Beryllium  | ug/kg | <500         | 500             | 500   | 08/20/20 23:05 |            |
| Boron      | ug/kg | <8000        | 8000            | 8000  | 08/20/20 23:05 |            |
| Calcium    | ug/kg | <6550        | 50000           | 6550  | 08/20/20 23:05 |            |
| Chromium   | ug/kg | <2000        | 2000            | 2000  | 08/20/20 23:05 |            |
| Copper     | ug/kg | <1000        | 1000            | 1000  | 08/20/20 23:05 |            |
| Iron       | ug/kg | <7600        | 25000           | 7600  | 08/20/20 23:05 |            |
| Lead       | ug/kg | <10000       | 10000           | 10000 | 08/20/20 23:05 |            |
| Magnesium  | ug/kg | <4000        | 25000           | 4000  | 08/20/20 23:05 |            |
| Manganese  | ug/kg | <1000        | 1000            | 1000  | 08/20/20 23:05 |            |
| Molybdenum | ug/kg | <1000        | 1000            | 1000  | 08/20/20 23:05 |            |
| Nickel     | ug/kg | <1000        | 1000            | 1000  | 08/20/20 23:05 |            |
| Potassium  | ug/kg | <5840        | 50000           | 5840  | 08/20/20 23:05 |            |
| Sodium     | ug/kg | <13600       | 25000           | 13600 | 08/20/20 23:05 |            |
| Strontium  | ug/kg | <5000        | 5000            | 5000  | 08/20/20 23:05 |            |
| Vanadium   | ug/kg | <1000        | 1000            | 1000  | 08/20/20 23:05 |            |
| Zinc       | ug/kg | <1000        | 1000            | 1000  | 08/20/20 23:05 |            |

LABORATORY CONTROL SAMPLE: 2660969

| Parameter  | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony   | ug/kg | 50000       | 49800      | 100       | 80-120       |            |
| Arsenic    | ug/kg | 50000       | 51200      | 102       | 80-120       |            |
| Barium     | ug/kg | 50000       | 50700      | 101       | 80-120       |            |
| Beryllium  | ug/kg | 50000       | 50600      | 101       | 80-120       |            |
| Boron      | ug/kg | 50000       | 49200      | 98        | 80-120       |            |
| Calcium    | ug/kg | 500000      | 516000     | 103       | 80-120       |            |
| Chromium   | ug/kg | 50000       | 48600      | 97        | 80-120       |            |
| Copper     | ug/kg | 50000       | 50000      | 100       | 80-120       |            |
| Iron       | ug/kg | 500000      | 509000     | 102       | 80-120       |            |
| Lead       | ug/kg | 50000       | 49200      | 98        | 80-120       |            |
| Magnesium  | ug/kg | 500000      | 491000     | 98        | 80-120       |            |
| Manganese  | ug/kg | 50000       | 49700      | 99        | 80-120       |            |
| Molybdenum | ug/kg | 50000       | 54100      | 108       | 80-120       |            |
| Nickel     | ug/kg | 50000       | 50000      | 100       | 80-120       |            |
| Potassium  | ug/kg | 500000      | 495000     | 99        | 80-120       |            |
| Sodium     | ug/kg | 500000      | 499000     | 100       | 80-120       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50264929

LABORATORY CONTROL SAMPLE: 2660969

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Strontium | ug/kg | 50000       | 50300      | 101       | 80-120       |            |
| Vanadium  | ug/kg | 50000       | 50500      | 101       | 80-120       |            |
| Zinc      | ug/kg | 50000       | 49300      | 99        | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2660970 2660971

| Parameter  | Units | MS           |        | MSD         |         | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual  |
|------------|-------|--------------|--------|-------------|---------|----------|-----------|--------------|--------|---------|-------|
|            |       | Spike Conc.  | Result | Spike Conc. | Result  |          |           |              |        |         |       |
| Antimony   | ug/kg | ND           | 52200  | 48200       | 14400   | 13100    | 28        | 27           | 75-125 | 9       | 20 M3 |
| Arsenic    | ug/kg | 6.4 mg/kg    | 52200  | 48200       | 56200   | 52700    | 96        | 96           | 75-125 | 6       | 20    |
| Barium     | ug/kg | 65.1 mg/kg   | 52200  | 48200       | 97500   | 95500    | 62        | 63           | 75-125 | 2       | 20 M3 |
| Beryllium  | ug/kg | 0.41J mg/kg  | 52200  | 48200       | 46900   | 43500    | 89        | 89           | 75-125 | 8       | 20    |
| Boron      | ug/kg | 14.0 mg/kg   | 52200  | 48200       | 68500   | 63000    | 104       | 102          | 75-125 | 8       | 20    |
| Calcium    | ug/kg | 113000 mg/kg | 522000 | 482000      | 1100000 | 1060000  | -659      | -1640        | 75-125 | 4       | 20 P6 |
| Chromium   | ug/kg | 12.3 mg/kg   | 52200  | 48200       | 58000   | 54500    | 88        | 88           | 75-125 | 6       | 20    |
| Copper     | ug/kg | 17.4 mg/kg   | 52200  | 48200       | 69700   | 66600    | 100       | 102          | 75-125 | 5       | 20    |
| Iron       | ug/kg | 13900 mg/kg  | 522000 | 482000      | 1530000 | 1510000  | 274       | 247          | 75-125 | 2       | 20 P6 |
| Lead       | ug/kg | 6.9 mg/kg    | 52200  | 48200       | 51900   | 48100    | 86        | 85           | 75-125 | 8       | 20    |
| Magnesium  | ug/kg | 34900 mg/kg  | 522000 | 482000      | 3600000 | 3390000  | 204       | -219         | 75-125 | 6       | 20 P6 |
| Manganese  | ug/kg | 312 mg/kg    | 52200  | 48200       | 304000  | 297000   | -14       | -30          | 75-125 | 2       | 20 P6 |
| Molybdenum | ug/kg | 5.2 mg/kg    | 52200  | 48200       | 55100   | 51100    | 96        | 95           | 75-125 | 7       | 20    |
| Nickel     | ug/kg | 19.4 mg/kg   | 52200  | 48200       | 63800   | 60600    | 85        | 85           | 75-125 | 5       | 20    |
| Potassium  | ug/kg | 1920 mg/kg   | 522000 | 482000      | 3350000 | 3220000  | 276       | 271          | 75-125 | 4       | 20 M3 |
| Sodium     | ug/kg | 244 mg/kg    | 522000 | 482000      | 757000  | 714000   | 98        | 98           | 75-125 | 6       | 20    |
| Strontium  | ug/kg | 85.8 mg/kg   | 52200  | 48200       | 132000  | 132000   | 89        | 95           | 75-125 | 1       | 20    |
| Vanadium   | ug/kg | 23.4 mg/kg   | 52200  | 48200       | 79700   | 75200    | 108       | 107          | 75-125 | 6       | 20    |
| Zinc       | ug/kg | 45.6 mg/kg   | 52200  | 48200       | 90300   | 98600    | 86        | 110          | 75-125 | 9       | 20    |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

QC Batch: 578633 Analysis Method: EPA 6010  
QC Batch Method: EPA 3050 Analysis Description: 6010 MET  
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50264929006

METHOD BLANK: 2667899 Matrix: Solid  
Associated Lab Samples: 50264929006

| Parameter  | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|------------|-------|--------------|-----------------|-------|----------------|------------|
| Antimony   | ug/kg | <1000        | 1000            | 1000  | 09/02/20 12:33 |            |
| Arsenic    | ug/kg | <2000        | 2000            | 2000  | 09/02/20 12:33 |            |
| Barium     | ug/kg | <1000        | 1000            | 1000  | 09/02/20 12:33 |            |
| Beryllium  | ug/kg | <500         | 500             | 500   | 09/02/20 12:33 |            |
| Boron      | ug/kg | <8000        | 8000            | 8000  | 09/02/20 12:33 |            |
| Calcium    | ug/kg | 27800J       | 50000           | 6550  | 09/02/20 12:33 |            |
| Chromium   | ug/kg | <2000        | 2000            | 2000  | 09/02/20 12:33 |            |
| Copper     | ug/kg | <1000        | 1000            | 1000  | 09/02/20 12:33 |            |
| Iron       | ug/kg | 7670J        | 25000           | 7600  | 09/02/20 12:33 |            |
| Lead       | ug/kg | <10000       | 10000           | 10000 | 09/02/20 12:33 |            |
| Magnesium  | ug/kg | 8880J        | 25000           | 4000  | 09/02/20 12:33 |            |
| Manganese  | ug/kg | <1000        | 1000            | 1000  | 09/02/20 12:33 |            |
| Molybdenum | ug/kg | <1000        | 1000            | 1000  | 09/02/20 12:33 |            |
| Nickel     | ug/kg | <1000        | 1000            | 1000  | 09/02/20 12:33 |            |
| Potassium  | ug/kg | <5840        | 50000           | 5840  | 09/02/20 12:33 |            |
| Sodium     | ug/kg | <13600       | 25000           | 13600 | 09/02/20 12:33 |            |
| Strontium  | ug/kg | <5000        | 5000            | 5000  | 09/02/20 12:33 |            |
| Vanadium   | ug/kg | <1000        | 1000            | 1000  | 09/02/20 12:33 |            |
| Zinc       | ug/kg | <1000        | 1000            | 1000  | 09/02/20 12:33 |            |

LABORATORY CONTROL SAMPLE: 2667900

| Parameter  | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony   | ug/kg | 50000       | 48500      | 97        | 80-120       |            |
| Arsenic    | ug/kg | 50000       | 49700      | 99        | 80-120       |            |
| Barium     | ug/kg | 50000       | 48800      | 98        | 80-120       |            |
| Beryllium  | ug/kg | 50000       | 47000      | 94        | 80-120       |            |
| Boron      | ug/kg | 50000       | 47600      | 95        | 80-120       |            |
| Calcium    | ug/kg | 500000      | 517000     | 103       | 80-120       |            |
| Chromium   | ug/kg | 50000       | 48400      | 97        | 80-120       |            |
| Copper     | ug/kg | 50000       | 49600      | 99        | 80-120       |            |
| Iron       | ug/kg | 500000      | 472000     | 94        | 80-120       |            |
| Lead       | ug/kg | 50000       | 48200      | 96        | 80-120       |            |
| Magnesium  | ug/kg | 500000      | 479000     | 96        | 80-120       |            |
| Manganese  | ug/kg | 50000       | 47900      | 96        | 80-120       |            |
| Molybdenum | ug/kg | 50000       | 49900      | 100       | 80-120       |            |
| Nickel     | ug/kg | 50000       | 47100      | 94        | 80-120       |            |
| Potassium  | ug/kg | 500000      | 478000     | 96        | 80-120       |            |
| Sodium     | ug/kg | 500000      | 478000     | 96        | 80-120       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

LABORATORY CONTROL SAMPLE: 2667900

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Strontium | ug/kg | 50000       | 48700      | 97        | 80-120       |            |
| Vanadium  | ug/kg | 50000       | 48300      | 97        | 80-120       |            |
| Zinc      | ug/kg | 50000       | 47200      | 94        | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2667901 2667902

| Parameter  | Units | 50265267003 |                | MSD             |           | MSD        |       | % Rec |        | Limits | RPD | Max RPD  | Qual |
|------------|-------|-------------|----------------|-----------------|-----------|------------|-------|-------|--------|--------|-----|----------|------|
|            |       | Result      | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | % Rec | % Rec |        |        |     |          |      |
| Antimony   | ug/kg | ND          | 52300          | 53600           | 15400     | 16300      | 29    | 29    | 75-125 | 5      | 20  | M3       |      |
| Arsenic    | ug/kg | 9.0 mg/kg   | 52300          | 53600           | 51600     | 55100      | 82    | 86    | 75-125 | 6      | 20  |          |      |
| Barium     | ug/kg | 85.6 mg/kg  | 52300          | 53600           | 162000    | 167000     | 146   | 152   | 75-125 | 3      | 20  | M3       |      |
| Beryllium  | ug/kg | ND          | 52300          | 53600           | 40800     | 42300      | 77    | 78    | 75-125 | 4      | 20  |          |      |
| Boron      | ug/kg | ND          | 52300          | 53600           | 44300     | 46600      | 75    | 77    | 75-125 | 5      | 20  |          |      |
| Calcium    | ug/kg | 19600 mg/kg | 523000         | 536000          | 1770000   | 1300000    | -364  | -1230 | 75-125 | 31     | 20  | 1d,E, P6 |      |
| Chromium   | ug/kg | 15.3 mg/kg  | 52300          | 53600           | 61700     | 63600      | 89    | 90    | 75-125 | 3      | 20  |          |      |
| Copper     | ug/kg | 30.6 mg/kg  | 52300          | 53600           | 71000     | 74500      | 77    | 82    | 75-125 | 5      | 20  |          |      |
| Iron       | ug/kg | 16200 mg/kg | 523000         | 536000          | 1700000   | 1900000    | 145   | 522   | 75-125 | 11     | 20  | P6       |      |
| Lead       | ug/kg | 12.5 mg/kg  | 52300          | 53600           | 50800     | 53400      | 73    | 76    | 75-125 | 5      | 20  | M0       |      |
| Magnesium  | ug/kg | 13900 mg/kg | 523000         | 536000          | 1330000   | 1010000    | -113  | -712  | 75-125 | 28     | 20  | 1d,P6    |      |
| Manganese  | ug/kg | 202 mg/kg   | 52300          | 53600           | 216000    | 298000     | 27    | 180   | 75-125 | 32     | 20  | 1d,M0    |      |
| Molybdenum | ug/kg | 1.9 mg/kg   | 52300          | 53600           | 41300     | 43400      | 75    | 77    | 75-125 | 5      | 20  |          |      |
| Nickel     | ug/kg | 18.4 mg/kg  | 52300          | 53600           | 57400     | 61400      | 75    | 80    | 75-125 | 7      | 20  |          |      |
| Potassium  | ug/kg | 875 mg/kg   | 523000         | 536000          | 1890000   | 2040000    | 193   | 217   | 75-125 | 8      | 20  | M3       |      |
| Sodium     | ug/kg | 340 mg/kg   | 523000         | 536000          | 900000    | 909000     | 107   | 106   | 75-125 | 1      | 20  |          |      |
| Strontium  | ug/kg | 15.4 mg/kg  | 52300          | 53600           | 60200     | 60100      | 86    | 83    | 75-125 | 0      | 20  |          |      |
| Vanadium   | ug/kg | 30.9 mg/kg  | 52300          | 53600           | 78600     | 84900      | 91    | 101   | 75-125 | 8      | 20  |          |      |
| Zinc       | ug/kg | 51.2 mg/kg  | 52300          | 53600           | 93400     | 97800      | 81    | 87    | 75-125 | 5      | 20  |          |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

QC Batch: 579029 Analysis Method: EPA 6010  
QC Batch Method: EPA 3010 Analysis Description: 6010 MET TCLP  
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50264929007

METHOD BLANK: 2669723 Matrix: Water  
Associated Lab Samples: 50264929007

| Parameter | Units | Blank Result | Reporting Limit | MDL    | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|--------|----------------|------------|
| Arsenic   | mg/L  | <0.010       | 0.010           | 0.0050 | 08/31/20 09:44 |            |
| Barium    | mg/L  | <0.50        | 0.50            | 0.025  | 08/31/20 09:44 |            |
| Cadmium   | mg/L  | <0.0050      | 0.0050          | 0.0025 | 08/31/20 09:44 |            |
| Chromium  | mg/L  | <0.010       | 0.010           | 0.0052 | 08/31/20 09:44 |            |
| Lead      | mg/L  | <0.010       | 0.010           | 0.0050 | 08/31/20 09:44 |            |
| Selenium  | mg/L  | <0.010       | 0.010           | 0.0050 | 08/31/20 09:44 |            |
| Silver    | mg/L  | <0.010       | 0.010           | 0.0050 | 08/31/20 09:44 |            |

LABORATORY CONTROL SAMPLE: 2669724

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic   | mg/L  | 1           | 0.96       | 96        | 80-120       |            |
| Barium    | mg/L  | 1           | 0.96       | 96        | 80-120       |            |
| Cadmium   | mg/L  | 1           | 0.92       | 92        | 80-120       |            |
| Chromium  | mg/L  | 1           | 0.95       | 95        | 80-120       |            |
| Lead      | mg/L  | 1           | 0.92       | 92        | 80-120       |            |
| Selenium  | mg/L  | 1           | 0.94       | 94        | 80-120       |            |
| Silver    | mg/L  | 0.5         | 0.48       | 95        | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2669725 2669726

| Parameter | Units | 50265142001 |                | MSD             |        | MS         |       | MSD   |        | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|----------------|-----------------|--------|------------|-------|-------|--------|--------------|-----|---------|------|
|           |       | Result      | MS Spike Conc. | MSD Spike Conc. | Result | MSD Result | % Rec | % Rec |        |              |     |         |      |
| Arsenic   | mg/L  | ND          | 10             | 10              | 9.9    | 9.8        | 99    | 98    | 50-150 | 1            | 20  |         |      |
| Barium    | mg/L  | ND          | 10             | 10              | 10.2   | 10.0       | 97    | 95    | 50-150 | 2            | 20  |         |      |
| Cadmium   | mg/L  | ND          | 10             | 10              | 9.5    | 9.3        | 95    | 93    | 50-150 | 1            | 20  |         |      |
| Chromium  | mg/L  | ND          | 10             | 10              | 9.6    | 9.5        | 96    | 95    | 50-150 | 1            | 20  |         |      |
| Lead      | mg/L  | ND          | 10             | 10              | 9.2    | 9.1        | 92    | 91    | 50-150 | 2            | 20  |         |      |
| Selenium  | mg/L  | ND          | 10             | 10              | 9.7    | 9.6        | 97    | 96    | 50-150 | 1            | 20  |         |      |
| Silver    | mg/L  | ND          | 5              | 5               | 4.9    | 4.8        | 98    | 96    | 50-150 | 2            | 20  |         |      |

MATRIX SPIKE SAMPLE: 2669727

| Parameter | Units | 50265049001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Arsenic   | mg/L  | ND                 | 10          | 10        | 100      | 50-150       |            |
| Barium    | mg/L  | ND                 | 10          | 10.2      | 98       | 50-150       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

| MATRIX SPIKE SAMPLE: 2669727 |       | 50265049001 | Spike | MS     | MS    | % Rec  |            |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter                    | Units | Result      | Conc. | Result | % Rec | Limits | Qualifiers |
| Cadmium                      | mg/L  | ND          | 10    | 9.5    | 95    | 50-150 |            |
| Chromium                     | mg/L  | ND          | 10    | 9.6    | 96    | 50-150 |            |
| Lead                         | mg/L  | ND          | 10    | 9.3    | 93    | 50-150 |            |
| Selenium                     | mg/L  | ND          | 10    | 9.7    | 97    | 50-150 |            |
| Silver                       | mg/L  | ND          | 5     | 4.9    | 98    | 50-150 |            |

| MATRIX SPIKE SAMPLE: 2669728 |       | 50265101001 | Spike | MS     | MS    | % Rec  |            |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter                    | Units | Result      | Conc. | Result | % Rec | Limits | Qualifiers |
| Arsenic                      | mg/L  | ND          | 10    | 9.9    | 99    | 50-150 |            |
| Barium                       | mg/L  | ND          | 10    | 9.9    | 97    | 50-150 |            |
| Cadmium                      | mg/L  | ND          | 10    | 9.5    | 94    | 50-150 |            |
| Chromium                     | mg/L  | ND          | 10    | 9.6    | 96    | 50-150 |            |
| Lead                         | mg/L  | 0.16        | 10    | 9.4    | 92    | 50-150 |            |
| Selenium                     | mg/L  | ND          | 10    | 9.7    | 97    | 50-150 |            |
| Silver                       | mg/L  | ND          | 5     | 4.8    | 97    | 50-150 |            |

| MATRIX SPIKE SAMPLE: 2669729 |       | 50265433001 | Spike | MS     | MS    | % Rec  |            |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter                    | Units | Result      | Conc. | Result | % Rec | Limits | Qualifiers |
| Arsenic                      | mg/L  | ND          | 10    | 9.7    | 97    | 50-150 |            |
| Barium                       | mg/L  | ND          | 10    | 9.8    | 96    | 50-150 |            |
| Cadmium                      | mg/L  | ND          | 10    | 9.3    | 93    | 50-150 |            |
| Chromium                     | mg/L  | ND          | 10    | 9.6    | 95    | 50-150 |            |
| Lead                         | mg/L  | 1.2         | 10    | 10.3   | 91    | 50-150 |            |
| Selenium                     | mg/L  | ND          | 10    | 9.5    | 95    | 50-150 |            |
| Silver                       | mg/L  | ND          | 5     | 4.8    | 96    | 50-150 |            |

| MATRIX SPIKE SAMPLE: 2669730 |       | 50265435001 | Spike | MS     | MS    | % Rec  |            |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter                    | Units | Result      | Conc. | Result | % Rec | Limits | Qualifiers |
| Arsenic                      | mg/L  | ND          | 10    | 9.9    | 99    | 50-150 |            |
| Barium                       | mg/L  | ND          | 10    | 9.8    | 98    | 50-150 |            |
| Cadmium                      | mg/L  | ND          | 10    | 9.5    | 95    | 50-150 |            |
| Chromium                     | mg/L  | ND          | 10    | 9.7    | 96    | 50-150 |            |
| Lead                         | mg/L  | ND          | 10    | 9.3    | 92    | 50-150 |            |
| Selenium                     | mg/L  | ND          | 10    | 9.7    | 97    | 50-150 |            |
| Silver                       | mg/L  | ND          | 5     | 4.9    | 98    | 50-150 |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

| MATRIX SPIKE SAMPLE: 2669731 |       | 50265579001 | Spike | MS     | MS    | % Rec  |            |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter                    | Units | Result      | Conc. | Result | % Rec | Limits | Qualifiers |
| Arsenic                      | mg/L  | ND          | 10    | 10     | 100   | 50-150 |            |
| Barium                       | mg/L  | ND          | 10    | 10.4   | 97    | 50-150 |            |
| Cadmium                      | mg/L  | ND          | 10    | 9.5    | 94    | 50-150 |            |
| Chromium                     | mg/L  | ND          | 10    | 9.6    | 96    | 50-150 |            |
| Lead                         | mg/L  | ND          | 10    | 9.2    | 92    | 50-150 |            |
| Selenium                     | mg/L  | ND          | 10    | 9.7    | 97    | 50-150 |            |
| Silver                       | mg/L  | ND          | 5     | 4.9    | 97    | 50-150 |            |

| MATRIX SPIKE SAMPLE: 2669732 |       | 50265296001 | Spike | MS     | MS    | % Rec  |            |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter                    | Units | Result      | Conc. | Result | % Rec | Limits | Qualifiers |
| Arsenic                      | mg/L  | ND          | 10    | 10.0   | 100   | 50-150 |            |
| Barium                       | mg/L  | ND          | 10    | 10.0   | 98    | 50-150 |            |
| Cadmium                      | mg/L  | ND          | 10    | 9.6    | 96    | 50-150 |            |
| Chromium                     | mg/L  | ND          | 10    | 9.7    | 96    | 50-150 |            |
| Lead                         | mg/L  | ND          | 10    | 9.2    | 92    | 50-150 |            |
| Selenium                     | mg/L  | ND          | 10    | 9.8    | 98    | 50-150 |            |
| Silver                       | mg/L  | ND          | 5     | 5.0    | 100   | 50-150 |            |

| MATRIX SPIKE SAMPLE: 2669733 |       | 50265654002 | Spike | MS     | MS    | % Rec  |            |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter                    | Units | Result      | Conc. | Result | % Rec | Limits | Qualifiers |
| Arsenic                      | mg/L  | ND          | 10    | 9.8    | 98    | 50-150 |            |
| Barium                       | mg/L  | ND          | 10    | 10.0   | 95    | 50-150 |            |
| Cadmium                      | mg/L  | ND          | 10    | 9.3    | 93    | 50-150 |            |
| Chromium                     | mg/L  | ND          | 10    | 9.4    | 94    | 50-150 |            |
| Lead                         | mg/L  | ND          | 10    | 9.0    | 90    | 50-150 |            |
| Selenium                     | mg/L  | ND          | 10    | 9.6    | 96    | 50-150 |            |
| Silver                       | mg/L  | ND          | 5     | 4.8    | 96    | 50-150 |            |

| MATRIX SPIKE SAMPLE: 2669734 |       | 50265533001 | Spike | MS     | MS    | % Rec  |            |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter                    | Units | Result      | Conc. | Result | % Rec | Limits | Qualifiers |
| Arsenic                      | mg/L  | ND          | 10    | 10.1   | 100   | 50-150 |            |
| Barium                       | mg/L  | ND          | 10    | 10.8   | 99    | 50-150 |            |
| Cadmium                      | mg/L  | ND          | 10    | 9.6    | 96    | 50-150 |            |
| Chromium                     | mg/L  | 0.12        | 10    | 9.8    | 97    | 50-150 |            |
| Lead                         | mg/L  | ND          | 10    | 9.3    | 93    | 50-150 |            |
| Selenium                     | mg/L  | ND          | 10    | 9.6    | 96    | 50-150 |            |
| Silver                       | mg/L  | ND          | 5     | 4.9    | 99    | 50-150 |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50264929

| MATRIX SPIKE SAMPLE: 2669735 |       | 50264929007 | Spike | MS     | MS    | % Rec  |            |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter                    | Units | Result      | Conc. | Result | % Rec | Limits | Qualifiers |
| Arsenic                      | mg/L  | <0.10       | 10    | 10.1   | 101   | 50-150 |            |
| Barium                       | mg/L  | <5.0        | 10    | 10.2   | 98    | 50-150 |            |
| Cadmium                      | mg/L  | <0.050      | 10    | 9.6    | 96    | 50-150 |            |
| Chromium                     | mg/L  | <0.10       | 10    | 9.6    | 96    | 50-150 |            |
| Lead                         | mg/L  | <0.10       | 10    | 9.4    | 93    | 50-150 |            |
| Selenium                     | mg/L  | <0.10       | 10    | 9.8    | 98    | 50-150 |            |
| Silver                       | mg/L  | <0.10       | 5     | 4.9    | 99    | 50-150 |            |

| MATRIX SPIKE SAMPLE: 2669736 |       | 50265582001 | Spike | MS     | MS    | % Rec  |            |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter                    | Units | Result      | Conc. | Result | % Rec | Limits | Qualifiers |
| Arsenic                      | mg/L  | ND          | 10    | 10.0   | 100   | 50-150 |            |
| Barium                       | mg/L  | ND          | 10    | 9.9    | 98    | 50-150 |            |
| Cadmium                      | mg/L  | ND          | 10    | 9.5    | 95    | 50-150 |            |
| Chromium                     | mg/L  | 110         | 10    | 120    | 95    | 50-150 |            |
| Lead                         | mg/L  | ND          | 10    | 9.2    | 92    | 50-150 |            |
| Selenium                     | mg/L  | ND          | 10    | 9.8    | 98    | 50-150 |            |
| Silver                       | mg/L  | ND          | 5     | 4.9    | 99    | 50-150 |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

QC Batch: 577044 Analysis Method: EPA 6010  
QC Batch Method: EPA 3010 Analysis Description: 6010 MET  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50264929001, 50264929002, 50264929003

METHOD BLANK: 2660987 Matrix: Water  
Associated Lab Samples: 50264929001, 50264929002, 50264929003

| Parameter  | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|------------|-------|--------------|-----------------|------|----------------|------------|
| Arsenic    | ug/L  | <5.0         | 5.0             | 5.0  | 08/20/20 08:28 |            |
| Barium     | ug/L  | <100         | 100             | 100  | 08/20/20 08:28 |            |
| Boron      | ug/L  | <300         | 300             | 300  | 08/20/20 08:28 |            |
| Calcium    | ug/L  | <1000        | 1000            | 1000 | 08/20/20 08:28 |            |
| Chromium   | ug/L  | <10.0        | 10.0            | 10.0 | 08/20/20 08:28 |            |
| Cobalt     | ug/L  | <20.0        | 20.0            | 20.0 | 08/20/20 08:28 |            |
| Copper     | ug/L  | <4.0         | 4.0             | 4.0  | 08/20/20 08:28 |            |
| Iron       | ug/L  | <200         | 200             | 200  | 08/20/20 08:28 |            |
| Magnesium  | ug/L  | <1000        | 1000            | 1000 | 08/20/20 08:28 |            |
| Manganese  | ug/L  | <50.0        | 50.0            | 50.0 | 08/20/20 08:28 |            |
| Molybdenum | ug/L  | <50.0        | 50.0            | 50.0 | 08/20/20 08:28 |            |
| Nickel     | ug/L  | <20.0        | 20.0            | 20.0 | 08/20/20 08:28 |            |
| Potassium  | ug/L  | <1000        | 1000            | 1000 | 08/20/20 08:28 |            |
| Sodium     | ug/L  | <1000        | 1000            | 1000 | 08/20/20 08:28 |            |
| Strontium  | ug/L  | <1000        | 1000            | 1000 | 08/20/20 08:28 |            |
| Zinc       | ug/L  | <50.0        | 50.0            | 50.0 | 08/20/20 08:28 |            |

LABORATORY CONTROL SAMPLE: 2660988

| Parameter  | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic    | ug/L  | 1000        | 996        | 100       | 80-120       |            |
| Barium     | ug/L  | 1000        | 951        | 95        | 80-120       |            |
| Boron      | ug/L  | 1000        | 971        | 97        | 80-120       |            |
| Calcium    | ug/L  | 10000       | 9250       | 93        | 80-120       |            |
| Chromium   | ug/L  | 1000        | 946        | 95        | 80-120       |            |
| Cobalt     | ug/L  | 1000        | 956        | 96        | 80-120       |            |
| Copper     | ug/L  | 1000        | 947        | 95        | 80-120       |            |
| Iron       | ug/L  | 10000       | 9550       | 96        | 80-120       |            |
| Magnesium  | ug/L  | 10000       | 9460       | 95        | 80-120       |            |
| Manganese  | ug/L  | 1000        | 948        | 95        | 80-120       |            |
| Molybdenum | ug/L  | 1000        | 1020       | 102       | 80-120       |            |
| Nickel     | ug/L  | 1000        | 965        | 97        | 80-120       |            |
| Potassium  | ug/L  | 10000       | 9310       | 93        | 80-120       |            |
| Sodium     | ug/L  | 10000       | 9550       | 95        | 80-120       |            |
| Strontium  | ug/L  | 1000        | <1000      | 94        | 80-120       |            |
| Zinc       | ug/L  | 1000        | 968        | 97        | 80-120       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2660989 2660990 |       |             |             |             |        |        |       |       |        |              |         |      |
|--|-------|-------------|-------------|-------------|--------|--------|-------|-------|--------|--------------|---------|------|
| Parameter  | Units | MS          |             | MSD         |        | MS     |       | MSD   |        | % Rec Limits | Max RPD | Qual |
|  |       | 50264638001 | Spike Conc. | Spike Conc. | Result | Result | % Rec | % Rec |        |              |         |      |
| Arsenic  | ug/L  | 34.4        | 1000        | 1000        | 1050   | 1020   | 101   | 99    | 75-125 | 2            | 20      |      |
| Barium   | ug/L  | 1960        | 1000        | 1000        | 2920   | 2820   | 95    | 86    | 75-125 | 3            | 20      |      |
| Boron  | ug/L  | ND          | 1000        | 1000        | 1070   | 1050   | 100   | 99    | 75-125 | 1            | 20      |      |
| Calcium  | ug/L  | 124000      | 10000       | 10000       | 133000 | 128000 | 92    | 48    | 75-125 | 3            | 20      | P6   |
| Chromium   | ug/L  | 17.9        | 1000        | 1000        | 951    | 931    | 93    | 91    | 75-125 | 2            | 20      |      |
| Cobalt   | ug/L  | ND          | 1000        | 1000        | 926    | 908    | 92    | 90    | 75-125 | 2            | 20      |      |
| Copper   | ug/L  | 20.9        | 1000        | 1000        | 963    | 941    | 94    | 92    | 75-125 | 2            | 20      |      |
| Iron   | ug/L  | 18200       | 10000       | 10000       | 27900  | 27000  | 97    | 88    | 75-125 | 3            | 20      |      |
| Magnesium  | ug/L  | 38400       | 10000       | 10000       | 48200  | 46600  | 98    | 82    | 75-125 | 3            | 20      |      |
| Manganese  | ug/L  | 429         | 1000        | 1000        | 1350   | 1320   | 93    | 89    | 75-125 | 3            | 20      |      |
| Molybdenum   | ug/L  | 98.9        | 1000        | 1000        | 1100   | 1080   | 101   | 98    | 75-125 | 2            | 20      |      |
| Nickel   | ug/L  | 21.6        | 1000        | 1000        | 939    | 919    | 92    | 90    | 75-125 | 2            | 20      |      |
| Potassium  | ug/L  | 8870        | 10000       | 10000       | 20100  | 19600  | 113   | 108   | 75-125 | 3            | 20      |      |
| Sodium   | ug/L  | 215000      | 10000       | 10000       | 225000 | 217000 | 97    | 17    | 75-125 | 4            | 20      | E,P6 |
| Strontium  | ug/L  | 270         | 1000        | 1000        | 1200   | 1170   | 93    | 90    | 75-125 | 3            | 20      |      |
| Zinc   | ug/L  | 69.8        | 1000        | 1000        | 1010   | 990    | 94    | 92    | 75-125 | 2            | 20      |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

QC Batch: 576950 Analysis Method: EPA 6020  
QC Batch Method: EPA 3050B Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50264929004, 50264929005

METHOD BLANK: 2660461 Matrix: Solid  
Associated Lab Samples: 50264929004, 50264929005

| Parameter | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Aluminum  | ug/kg | <985         | 985             | 985  | 08/18/20 02:15 |            |
| Cadmium   | ug/kg | <197         | 197             | 197  | 08/18/20 02:15 |            |
| Cobalt    | ug/kg | <493         | 493             | 493  | 08/18/20 02:15 |            |
| Selenium  | ug/kg | <197         | 197             | 197  | 08/18/20 02:15 |            |
| Silver    | ug/kg | <98.5        | 98.5            | 98.5 | 08/18/20 02:15 |            |
| Thallium  | ug/kg | <493         | 493             | 493  | 08/18/20 02:15 |            |
| Titanium  | ug/kg | <26.2        | 98.5            | 26.2 | 08/18/20 02:15 | N2         |

LABORATORY CONTROL SAMPLE: 2660462

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Aluminum  | ug/kg | 38600       | 38300      | 99        | 80-120       |            |
| Cadmium   | ug/kg | 3860        | 3810       | 99        | 80-120       |            |
| Cobalt    | ug/kg | 3860        | 4040       | 105       | 80-120       |            |
| Selenium  | ug/kg | 3860        | 3500       | 91        | 80-120       |            |
| Silver    | ug/kg | 3860        | 3960       | 103       | 80-120       |            |
| Thallium  | ug/kg | 3860        | 4130       | 107       | 80-120       |            |
| Titanium  | ug/kg | 3860        | 3900       | 101       | 80-120       | N2         |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2660463 2660464

| Parameter | Units | 50264929004    |                 | 2660464   |            | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |       |
|-----------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|--------|---------|------|-------|
|           |       | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result |          |           |              |        |         |      |       |
| Aluminum  | ug/kg | 5780000        | 45000           | 43100     | 6210000    | 5870000  | 969       | 212          | 75-125 | 6       | 20   | P6    |
| Cadmium   | ug/kg | 412            | 4500            | 4310      | 4540       | 4420     | 92        | 93           | 75-125 | 3       | 20   |       |
| Cobalt    | ug/kg | <2780          | 4500            | 4310      | 6920       | 6710     | 95        | 95           | 75-125 | 3       | 20   |       |
| Selenium  | ug/kg | <1110          | 4500            | 4310      | 4290       | 4070     | 86        | 84           | 75-125 | 5       | 20   |       |
| Silver    | ug/kg | <111           | 4500            | 4310      | 4280       | 4160     | 93        | 94           | 75-125 | 3       | 20   |       |
| Thallium  | ug/kg | <555           | 4500            | 4310      | 4710       | 4360     | 103       | 99           | 75-125 | 8       | 20   |       |
| Titanium  | ug/kg | 394000         | 4500            | 4310      | 401000     | 395000   | 172       | 36           | 75-125 | 2       | 20   | N2,P6 |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

QC Batch: 578417 Analysis Method: EPA 6020  
QC Batch Method: EPA 3050B Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50264929006

METHOD BLANK: 2666855 Matrix: Solid

Associated Lab Samples: 50264929006

| Parameter | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Aluminum  | ug/kg | <954         | 954             | 954  | 08/27/20 06:27 |            |
| Cadmium   | ug/kg | <191         | 191             | 191  | 08/27/20 06:27 |            |
| Cobalt    | ug/kg | <477         | 477             | 477  | 08/27/20 06:27 |            |
| Selenium  | ug/kg | <191         | 191             | 191  | 08/27/20 06:27 |            |
| Silver    | ug/kg | <95.4        | 95.4            | 95.4 | 08/27/20 06:27 |            |
| Thallium  | ug/kg | <477         | 477             | 477  | 08/27/20 06:27 |            |
| Titanium  | ug/kg | <25.4        | 95.4            | 25.4 | 08/27/20 06:27 | N2         |

LABORATORY CONTROL SAMPLE: 2666856

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Aluminum  | ug/kg | 39800       | 41400      | 104       | 80-120       |            |
| Cadmium   | ug/kg | 3980        | 3760       | 95        | 80-120       |            |
| Cobalt    | ug/kg | 3980        | 4050       | 102       | 80-120       |            |
| Selenium  | ug/kg | 3980        | 3740       | 94        | 80-120       |            |
| Silver    | ug/kg | 3980        | 3980       | 100       | 80-120       |            |
| Thallium  | ug/kg | 3980        | 4110       | 103       | 80-120       |            |
| Titanium  | ug/kg | 3980        | 4010       | 101       | 80-120       | N2         |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2666857 2666858

| Parameter | Units | MS                 |             | MSD         |         | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual      |
|-----------|-------|--------------------|-------------|-------------|---------|----------|-----------|--------------|--------|---------|-----------|
|           |       | 50264929006 Result | Spike Conc. | Spike Conc. | Result  |          |           |              |        |         |           |
| Aluminum  | ug/kg | 3720000            | 46400       | 45100       | 5330000 | 5010000  | 3460      | 2850         | 75-125 | 6 20    | P6        |
| Cadmium   | ug/kg | 372                | 4640        | 4510        | 4620    | 4550     | 92        | 93           | 75-125 | 2 20    |           |
| Cobalt    | ug/kg | 1490               | 4640        | 4510        | 6110    | 5560     | 100       | 90           | 75-125 | 9 20    |           |
| Selenium  | ug/kg | <1130              | 4640        | 4510        | 4560    | 4400     | 93        | 92           | 75-125 | 3 20    |           |
| Silver    | ug/kg | <113               | 4640        | 4510        | 4350    | 4260     | 93        | 94           | 75-125 | 2 20    |           |
| Thallium  | ug/kg | <567               | 4640        | 4510        | 4740    | 4690     | 101       | 103          | 75-125 | 1 20    |           |
| Titanium  | ug/kg | 274000             | 4640        | 4510        | 429000  | 342000   | 3350      | 1530         | 75-125 | 22 20   | N2,P6, R1 |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

QC Batch: 577126 Analysis Method: EPA 6020  
QC Batch Method: EPA 200.2 Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50264929001, 50264929002, 50264929003

METHOD BLANK: 2661235 Matrix: Water  
Associated Lab Samples: 50264929001, 50264929002, 50264929003

| Parameter | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Aluminum  | ug/L  | <50.0        | 50.0            | 50.0  | 08/18/20 17:39 |            |
| Antimony  | ug/L  | <2.0         | 2.0             | 2.0   | 08/18/20 17:39 |            |
| Beryllium | ug/L  | <1.0         | 1.0             | 1.0   | 08/18/20 17:39 |            |
| Cadmium   | ug/L  | <1.0         | 1.0             | 1.0   | 08/18/20 17:39 |            |
| Lead      | ug/L  | <3.0         | 3.0             | 3.0   | 08/18/20 17:39 |            |
| Selenium  | ug/L  | <5.0         | 5.0             | 5.0   | 08/18/20 17:39 |            |
| Silver    | ug/L  | <0.20        | 0.25            | 0.20  | 08/18/20 17:39 |            |
| Thallium  | ug/L  | <2.0         | 2.0             | 2.0   | 08/18/20 17:39 |            |
| Titanium  | ug/L  | <0.072       | 1.0             | 0.072 | 08/18/20 17:39 | N2         |
| Vanadium  | ug/L  | <4.0         | 4.0             | 4.0   | 08/18/20 17:39 |            |

LABORATORY CONTROL SAMPLE: 2661236

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Aluminum  | ug/L  | 400         | 393        | 98        | 80-120       |            |
| Antimony  | ug/L  | 40          | 40.8       | 102       | 80-120       |            |
| Beryllium | ug/L  | 40          | 42.2       | 106       | 80-120       |            |
| Cadmium   | ug/L  | 40          | 39.9       | 100       | 80-120       |            |
| Lead      | ug/L  | 40          | 41.1       | 103       | 80-120       |            |
| Selenium  | ug/L  | 40          | 39.3       | 98        | 80-120       |            |
| Silver    | ug/L  | 40          | 40.4       | 101       | 80-120       |            |
| Thallium  | ug/L  | 40          | 42.6       | 107       | 80-120       |            |
| Titanium  | ug/L  | 40          | 41.6       | 104       | 80-120       | N2         |
| Vanadium  | ug/L  | 40          | 41.3       | 103       | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2661237 2661238

| Parameter | Units | MS                 |             | MSD         |           | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |            |
|-----------|-------|--------------------|-------------|-------------|-----------|----------|-----------|--------------|--------|---------|------|------------|
|           |       | 50264846001 Result | Spike Conc. | Spike Conc. | MS Result |          |           |              |        |         |      | MSD Result |
| Aluminum  | ug/L  | 315                | 400         | 400         | 699       | 712      | 96        | 99           | 75-125 | 2       | 20   |            |
| Antimony  | ug/L  | ND                 | 40          | 40          | 40.4      | 40.8     | 101       | 102          | 75-125 | 1       | 20   |            |
| Beryllium | ug/L  | ND                 | 40          | 40          | 38.9      | 38.6     | 97        | 96           | 75-125 | 1       | 20   |            |
| Cadmium   | ug/L  | ND                 | 40          | 40          | 37.4      | 38.1     | 93        | 95           | 75-125 | 2       | 20   |            |
| Lead      | ug/L  | ND                 | 40          | 40          | 41.2      | 41.5     | 102       | 103          | 75-125 | 1       | 20   |            |
| Selenium  | ug/L  | ND                 | 40          | 40          | 39.0      | 39.0     | 96        | 95           | 75-125 | 0       | 20   |            |
| Silver    | ug/L  | ND                 | 40          | 40          | 37.7      | 38.0     | 94        | 95           | 75-125 | 1       | 20   |            |
| Thallium  | ug/L  | ND                 | 40          | 40          | 42.3      | 42.4     | 106       | 106          | 75-125 | 0       | 20   |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50264929

| Parameter | Units | 2661237               |                      | 2661238               |              | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | RPD | Max<br>RPD | Qual |
|-----------|-------|-----------------------|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
|           |       | 50264846001<br>Result | MS<br>Spike<br>Conc. | MSD<br>Spike<br>Conc. | MS<br>Result |              |               |             |              |                 |     |            |      |
| Titanium  | ug/L  | 712                   | 40                   | 40                    | 730          | 738          | 44            | 64          | 75-125       | 1               | 20  | N2,P6      |      |
| Vanadium  | ug/L  | ND                    | 40                   | 40                    | 43.0         | 43.0         | 104           | 103         | 75-125       | 0               | 20  |            |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

QC Batch: 174482 Analysis Method: EPA 8260C SIM/5030C  
QC Batch Method: EPA 8260C SIM/5030C Analysis Description: 8260C SIM 5030C  
Laboratory: Pace Analytical Services - Melville  
Associated Lab Samples: 50264929001, 50264929002, 50264929003

METHOD BLANK: 845980 Matrix: Water  
Associated Lab Samples: 50264929001, 50264929002, 50264929003

| Parameter                  | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|----------------------------|-------|--------------|-----------------|-------|----------------|------------|
| 1,4-Dioxane (p-Dioxane)    | ug/L  | <0.090       | 0.20            | 0.090 | 08/25/20 18:42 |            |
| 1,2-Dichlorobenzene-d4 (S) | %     | 93           | 60-140          |       | 08/25/20 18:42 |            |
| 4-Bromofluorobenzene (S)   | %     | 122          | 79-124          |       | 08/25/20 18:42 |            |

LABORATORY CONTROL SAMPLE: 845981

| Parameter                  | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,4-Dioxane (p-Dioxane)    | ug/L  | 2.5         | 2.7        | 107       | 60-140       |            |
| 1,2-Dichlorobenzene-d4 (S) | %     |             |            | 94        | 60-140       |            |
| 4-Bromofluorobenzene (S)   | %     |             |            | 122       | 79-124       |            |

MATRIX SPIKE SAMPLE: 846763

| Parameter                  | Units | 50264929003 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| 1,4-Dioxane (p-Dioxane)    | ug/L  | <0.090             | 2.5         | 2.2       | 86       | 60-140       |            |
| 1,2-Dichlorobenzene-d4 (S) | %     |                    |             |           | 80       | 60-140       |            |
| 4-Bromofluorobenzene (S)   | %     |                    |             |           | 115      | 79-124       |            |

SAMPLE DUPLICATE: 846805

| Parameter                  | Units | 50264929002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|----------------------------|-------|--------------------|------------|-----|---------|------------|
| 1,4-Dioxane (p-Dioxane)    | ug/L  | 0.23               | 0.29       | 23  | 20      | D6         |
| 1,2-Dichlorobenzene-d4 (S) | %     | 85                 | 123        |     | 20      |            |
| 4-Bromofluorobenzene (S)   | %     | 119                | 157        |     | 20      | S0         |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

QC Batch: 578050 Analysis Method: EPA 5030B/8260  
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Low Level  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50264929001, 50264929002, 50264929003

METHOD BLANK: 2665442 Matrix: Water  
Associated Lab Samples: 50264929001, 50264929002, 50264929003

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/L  | <1.0         | 1.0             | 1.0  | 08/21/20 18:52 |            |
| 1,1,1-Trichloroethane       | ug/L  | <1.0         | 1.0             | 1.0  | 08/21/20 18:52 |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | <1.0         | 1.0             | 1.0  | 08/21/20 18:52 |            |
| 1,1,2-Trichloroethane       | ug/L  | <1.0         | 1.0             | 1.0  | 08/21/20 18:52 |            |
| 1,1-Dichloroethane          | ug/L  | <1.0         | 1.0             | 1.0  | 08/21/20 18:52 |            |
| 1,1-Dichloroethene          | ug/L  | <1.0         | 1.0             | 1.0  | 08/21/20 18:52 |            |
| 1,2,3-Trichlorobenzene      | ug/L  | <5.0         | 5.0             | 5.0  | 08/21/20 18:52 |            |
| 1,2,3-Trichloropropane      | ug/L  | <1.0         | 1.0             | 1.0  | 08/21/20 18:52 |            |
| 1,2,3-Trimethylbenzene      | ug/L  | <5.0         | 5.0             | 5.0  | 08/21/20 18:52 | N2         |
| 1,2,4-Trichlorobenzene      | ug/L  | <5.0         | 5.0             | 5.0  | 08/21/20 18:52 |            |
| 1,2,4-Trimethylbenzene      | ug/L  | <1.0         | 5.0             | 1.0  | 08/21/20 18:52 |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | <0.25        | 0.50            | 0.25 | 08/21/20 18:52 |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | <0.23        | 0.50            | 0.23 | 08/21/20 18:52 |            |
| 1,2-Dichlorobenzene         | ug/L  | <1.0         | 1.0             | 1.0  | 08/21/20 18:52 |            |
| 1,2-Dichloroethane          | ug/L  | <1.0         | 1.0             | 1.0  | 08/21/20 18:52 |            |
| 1,2-Dichloropropane         | ug/L  | <1.0         | 1.0             | 1.0  | 08/21/20 18:52 |            |
| 1,3,5-Trimethylbenzene      | ug/L  | <1.0         | 5.0             | 1.0  | 08/21/20 18:52 |            |
| 1,3-Dichlorobenzene         | ug/L  | <1.0         | 1.0             | 1.0  | 08/21/20 18:52 |            |
| 1,4-Dichlorobenzene         | ug/L  | <1.0         | 1.0             | 1.0  | 08/21/20 18:52 |            |
| 2-Butanone (MEK)            | ug/L  | <25.0        | 25.0            | 25.0 | 08/21/20 18:52 |            |
| 2-Hexanone                  | ug/L  | <50.0        | 50.0            | 50.0 | 08/21/20 18:52 |            |
| 2-Methylnaphthalene         | ug/L  | <5.0         | 20.0            | 5.0  | 08/21/20 18:52 |            |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | <50.0        | 50.0            | 50.0 | 08/21/20 18:52 |            |
| Acetone                     | ug/L  | <50.0        | 50.0            | 50.0 | 08/21/20 18:52 |            |
| Acrylonitrile               | ug/L  | <2.0         | 2.0             | 2.0  | 08/21/20 18:52 |            |
| Benzene                     | ug/L  | <1.0         | 1.0             | 1.0  | 08/21/20 18:52 |            |
| Bromobenzene                | ug/L  | <1.0         | 1.0             | 1.0  | 08/21/20 18:52 |            |
| Bromochloromethane          | ug/L  | <0.22        | 1.0             | 0.22 | 08/21/20 18:52 |            |
| Bromodichloromethane        | ug/L  | <1.0         | 1.0             | 1.0  | 08/21/20 18:52 |            |
| Bromoform                   | ug/L  | <1.0         | 1.0             | 1.0  | 08/21/20 18:52 |            |
| Bromomethane                | ug/L  | <5.0         | 5.0             | 5.0  | 08/21/20 18:52 |            |
| Carbon disulfide            | ug/L  | <5.0         | 5.0             | 5.0  | 08/21/20 18:52 |            |
| Carbon tetrachloride        | ug/L  | <1.0         | 1.0             | 1.0  | 08/21/20 18:52 |            |
| Chlorobenzene               | ug/L  | <1.0         | 1.0             | 1.0  | 08/21/20 18:52 |            |
| Chloroethane                | ug/L  | <5.0         | 5.0             | 5.0  | 08/21/20 18:52 |            |
| Chloroform                  | ug/L  | <1.0         | 1.0             | 1.0  | 08/21/20 18:52 |            |
| Chloromethane               | ug/L  | <5.0         | 5.0             | 5.0  | 08/21/20 18:52 |            |
| cis-1,2-Dichloroethene      | ug/L  | <1.0         | 1.0             | 1.0  | 08/21/20 18:52 |            |
| cis-1,3-Dichloropropene     | ug/L  | <100         | 100             | 100  | 08/21/20 18:52 |            |
| Cyclohexane                 | ug/L  | <10.0        | 10.0            | 10.0 | 08/21/20 18:52 | N2         |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

METHOD BLANK: 2665442 Matrix: Water  
Associated Lab Samples: 50264929001, 50264929002, 50264929003

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| Dibromochloromethane        | ug/L  | <5.0         | 5.0             | 5.0  | 08/21/20 18:52 |            |
| Dibromomethane              | ug/L  | <5.0         | 5.0             | 5.0  | 08/21/20 18:52 |            |
| Dichlorodifluoromethane     | ug/L  | <5.0         | 5.0             | 5.0  | 08/21/20 18:52 |            |
| Diethyl ether (Ethyl ether) | ug/L  | <5.0         | 5.0             | 5.0  | 08/21/20 18:52 |            |
| Diisopropyl ether           | ug/L  | <5.0         | 5.0             | 5.0  | 08/21/20 18:52 | N2         |
| Ethyl-tert-butyl ether      | ug/L  | <5.0         | 5.0             | 5.0  | 08/21/20 18:52 | N2         |
| Ethylbenzene                | ug/L  | <1.0         | 1.0             | 1.0  | 08/21/20 18:52 |            |
| Hexachloroethane            | ug/L  | <5.0         | 5.0             | 5.0  | 08/21/20 18:52 | N2         |
| Iodomethane                 | ug/L  | <0.51        | 5.0             | 0.51 | 08/21/20 18:52 |            |
| Isopropylbenzene (Cumene)   | ug/L  | <5.0         | 5.0             | 5.0  | 08/21/20 18:52 |            |
| m&p-Xylene                  | ug/L  | <0.24        | 2.0             | 0.24 | 08/21/20 18:52 |            |
| Methyl-tert-butyl ether     | ug/L  | <5.0         | 5.0             | 5.0  | 08/21/20 18:52 |            |
| Methylene Chloride          | ug/L  | <5.0         | 5.0             | 5.0  | 08/21/20 18:52 |            |
| n-Butylbenzene              | ug/L  | <1.0         | 1.0             | 1.0  | 08/21/20 18:52 |            |
| n-Propylbenzene             | ug/L  | <100         | 100             | 100  | 08/21/20 18:52 |            |
| Naphthalene                 | ug/L  | <5.0         | 5.0             | 5.0  | 08/21/20 18:52 |            |
| o-Xylene                    | ug/L  | <0.16        | 1.0             | 0.16 | 08/21/20 18:52 |            |
| p-Isopropyltoluene          | ug/L  | <0.11        | 1.0             | 0.11 | 08/21/20 18:52 |            |
| sec-Butylbenzene            | ug/L  | <1.0         | 1.0             | 1.0  | 08/21/20 18:52 |            |
| Styrene                     | ug/L  | <1.0         | 1.0             | 1.0  | 08/21/20 18:52 |            |
| tert-Amylmethyl ether       | ug/L  | <5.0         | 5.0             | 5.0  | 08/21/20 18:52 | N2         |
| tert-Butyl Alcohol          | ug/L  | <50.0        | 50.0            | 50.0 | 08/21/20 18:52 |            |
| tert-Butylbenzene           | ug/L  | <1.0         | 1.0             | 1.0  | 08/21/20 18:52 |            |
| Tetrachloroethane           | ug/L  | <1.0         | 1.0             | 1.0  | 08/21/20 18:52 |            |
| Tetrahydrofuran             | ug/L  | <90.0        | 90.0            | 90.0 | 08/21/20 18:52 | N2         |
| Toluene                     | ug/L  | <1.0         | 1.0             | 1.0  | 08/21/20 18:52 |            |
| trans-1,2-Dichloroethene    | ug/L  | <1.0         | 1.0             | 1.0  | 08/21/20 18:52 |            |
| trans-1,3-Dichloropropene   | ug/L  | <100         | 100             | 100  | 08/21/20 18:52 |            |
| trans-1,4-Dichloro-2-butene | ug/L  | <0.40        | 100             | 0.40 | 08/21/20 18:52 |            |
| Trichloroethene             | ug/L  | <1.0         | 1.0             | 1.0  | 08/21/20 18:52 |            |
| Trichlorofluoromethane      | ug/L  | <1.0         | 2.0             | 1.0  | 08/21/20 18:52 |            |
| Vinyl chloride              | ug/L  | <1.0         | 1.0             | 1.0  | 08/21/20 18:52 |            |
| 4-Bromofluorobenzene (S)    | %     | 99           | 85-116          |      | 08/21/20 18:52 |            |
| Dibromofluoromethane (S)    | %     | 101          | 75-120          |      | 08/21/20 18:52 |            |
| Toluene-d8 (S)              | %     | 94           | 83-111          |      | 08/21/20 18:52 |            |

LABORATORY CONTROL SAMPLE: 2665443

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/L  | 50          | 50.2       | 100       | 78-120       |            |
| 1,1,1-Trichloroethane     | ug/L  | 50          | 53.6       | 107       | 78-130       |            |
| 1,1,2,2-Tetrachloroethane | ug/L  | 50          | 42.4       | 85        | 64-126       |            |
| 1,1,2-Trichloroethane     | ug/L  | 50          | 43.8       | 88        | 73-125       |            |
| 1,1-Dichloroethane        | ug/L  | 50          | 48.6       | 97        | 77-123       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

LABORATORY CONTROL SAMPLE: 2665443

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1-Dichloroethene          | ug/L  | 50          | 53.9       | 108       | 79-128       |            |
| 1,2,3-Trichlorobenzene      | ug/L  | 50          | 72.1       | 144       | 75-126       | L1         |
| 1,2,3-Trichloropropane      | ug/L  | 50          | 46.8       | 94        | 71-131       |            |
| 1,2,3-Trimethylbenzene      | ug/L  |             | <5.0       |           |              | N2         |
| 1,2,4-Trichlorobenzene      | ug/L  | 50          | 60.0       | 120       | 76-130       |            |
| 1,2,4-Trimethylbenzene      | ug/L  | 50          | 48.7       | 97        | 76-119       |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | 50          | 50.3       | 101       | 71-133       |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | 50          | 45.3       | 91        | 76-122       |            |
| 1,2-Dichlorobenzene         | ug/L  | 50          | 47.1       | 94        | 79-113       |            |
| 1,2-Dichloroethane          | ug/L  | 50          | 42.9       | 86        | 66-127       |            |
| 1,2-Dichloropropane         | ug/L  | 50          | 46.2       | 92        | 75-127       |            |
| 1,3,5-Trimethylbenzene      | ug/L  | 50          | 47.4       | 95        | 78-116       |            |
| 1,3-Dichlorobenzene         | ug/L  | 50          | 48.7       | 97        | 79-120       |            |
| 1,4-Dichlorobenzene         | ug/L  | 50          | 43.8       | 88        | 77-117       |            |
| 2-Butanone (MEK)            | ug/L  | 250         | 242        | 97        | 61-138       |            |
| 2-Hexanone                  | ug/L  | 250         | 222        | 89        | 58-138       |            |
| 2-Methylnaphthalene         | ug/L  | 50          | 55.4       | 111       | 60-136       |            |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | 250         | 217        | 87        | 60-131       |            |
| Acetone                     | ug/L  | 250         | 264        | 106       | 57-126       |            |
| Acrylonitrile               | ug/L  | 200         | 178        | 89        | 65-127       |            |
| Benzene                     | ug/L  | 50          | 46.7       | 93        | 75-118       |            |
| Bromobenzene                | ug/L  | 50          | 49.7       | 99        | 68-127       |            |
| Bromochloromethane          | ug/L  | 50          | 40.5       | 81        | 66-126       |            |
| Bromodichloromethane        | ug/L  | 50          | 48.2       | 96        | 75-120       |            |
| Bromoform                   | ug/L  | 50          | 46.3       | 93        | 61-119       |            |
| Bromomethane                | ug/L  | 50          | 54.8       | 110       | 12-184       |            |
| Carbon disulfide            | ug/L  | 50          | 50.0       | 100       | 71-123       |            |
| Carbon tetrachloride        | ug/L  | 50          | 53.2       | 106       | 73-125       |            |
| Chlorobenzene               | ug/L  | 50          | 47.5       | 95        | 80-115       |            |
| Chloroethane                | ug/L  | 50          | 50.5       | 101       | 46-133       |            |
| Chloroform                  | ug/L  | 50          | 47.8       | 96        | 75-117       |            |
| Chloromethane               | ug/L  | 50          | 63.2       | 126       | 33-124       | L1         |
| cis-1,2-Dichloroethene      | ug/L  | 50          | 47.6       | 95        | 76-120       |            |
| cis-1,3-Dichloropropene     | ug/L  | 50          | <100       | 95        | 73-130       |            |
| Cyclohexane                 | ug/L  | 50          | 53.8       | 108       | 58-122       | N2         |
| Dibromochloromethane        | ug/L  | 50          | 48.3       | 97        | 69-124       |            |
| Dibromomethane              | ug/L  | 50          | 45.3       | 91        | 76-124       |            |
| Dichlorodifluoromethane     | ug/L  | 50          | 64.1       | 128       | 36-145       |            |
| Diethyl ether (Ethyl ether) | ug/L  | 50          | 52.1       | 104       | 70-130       |            |
| Diisopropyl ether           | ug/L  |             | <5.0       |           |              | N2         |
| Ethyl-tert-butyl ether      | ug/L  |             | <5.0       |           |              | N2         |
| Ethylbenzene                | ug/L  | 50          | 48.7       | 97        | 78-120       |            |
| Hexachloroethane            | ug/L  |             | <5.0       |           |              | N2         |
| Iodomethane                 | ug/L  | 100         | 141        | 141       | 10-184       |            |
| Isopropylbenzene (Cumene)   | ug/L  | 50          | 53.2       | 106       | 82-122       |            |
| m&p-Xylene                  | ug/L  | 100         | 93.3       | 93        | 79-118       |            |
| Methyl-tert-butyl ether     | ug/L  | 50          | 46.4       | 93        | 79-125       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

LABORATORY CONTROL SAMPLE: 2665443

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Methylene Chloride          | ug/L  | 50          | 51.7       | 103       | 68-126       |            |
| n-Butylbenzene              | ug/L  | 50          | 50.1       | 100       | 73-123       |            |
| n-Propylbenzene             | ug/L  | 50          | <100       | 91        | 75-119       |            |
| Naphthalene                 | ug/L  | 50          | 60.8       | 122       | 70-130       |            |
| o-Xylene                    | ug/L  | 50          | 48.9       | 98        | 78-121       |            |
| p-Isopropyltoluene          | ug/L  | 50          | 50.8       | 102       | 82-119       |            |
| sec-Butylbenzene            | ug/L  | 50          | 49.2       | 98        | 79-119       |            |
| Styrene                     | ug/L  | 50          | 49.7       | 99        | 80-121       |            |
| tert-Amylmethyl ether       | ug/L  |             | <5.0       |           |              | N2         |
| tert-Butyl Alcohol          | ug/L  | 100         | 132        | 132       | 10-200       |            |
| tert-Butylbenzene           | ug/L  | 50          | 38.4       | 77        | 58-106       |            |
| Tetrachloroethene           | ug/L  | 50          | 49.0       | 98        | 70-123       |            |
| Tetrahydrofuran             | ug/L  | 50          | <90.0      | 108       | 50-150       | N2         |
| Toluene                     | ug/L  | 50          | 45.0       | 90        | 72-114       |            |
| trans-1,2-Dichloroethene    | ug/L  | 50          | 51.8       | 104       | 79-126       |            |
| trans-1,3-Dichloropropene   | ug/L  | 50          | <100       | 92        | 68-122       |            |
| trans-1,4-Dichloro-2-butene | ug/L  | 200         | 209        | 105       | 34-130       |            |
| Trichloroethene             | ug/L  | 50          | 48.1       | 96        | 78-120       |            |
| Trichlorofluoromethane      | ug/L  | 50          | 50.4       | 101       | 57-156       |            |
| Vinyl chloride              | ug/L  | 50          | 61.7       | 123       | 55-122       | L1         |
| 4-Bromofluorobenzene (S)    | %     |             |            | 105       | 85-116       |            |
| Dibromofluoromethane (S)    | %     |             |            | 99        | 75-120       |            |
| Toluene-d8 (S)              | %     |             |            | 93        | 83-111       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

QC Batch: 578070 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035 Volatile Organics  
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50264929004, 50264929005

METHOD BLANK: 2665591 Matrix: Solid

Associated Lab Samples: 50264929004, 50264929005

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/kg | <100         | 100             | 100  | 08/21/20 18:52 |            |
| 1,1,1-Trichloroethane       | ug/kg | <50.0        | 50.0            | 50.0 | 08/21/20 18:52 |            |
| 1,1,2,2-Tetrachloroethane   | ug/kg | <50.0        | 50.0            | 50.0 | 08/21/20 18:52 |            |
| 1,1,2-Trichloroethane       | ug/kg | <50.0        | 50.0            | 50.0 | 08/21/20 18:52 |            |
| 1,1-Dichloroethane          | ug/kg | <50.0        | 50.0            | 50.0 | 08/21/20 18:52 |            |
| 1,1-Dichloroethene          | ug/kg | <50.0        | 50.0            | 50.0 | 08/21/20 18:52 |            |
| 1,2,3-Trichlorobenzene      | ug/kg | <250         | 250             | 250  | 08/21/20 18:52 |            |
| 1,2,3-Trichloropropane      | ug/kg | <100         | 100             | 100  | 08/21/20 18:52 |            |
| 1,2,3-Trimethylbenzene      | ug/kg | <250         | 250             | 250  | 08/21/20 18:52 | N2         |
| 1,2,4-Trichlorobenzene      | ug/kg | <250         | 250             | 250  | 08/21/20 18:52 |            |
| 1,2,4-Trimethylbenzene      | ug/kg | <100         | 100             | 100  | 08/21/20 18:52 |            |
| 1,2-Dibromo-3-chloropropane | ug/kg | <50.0        | 50.0            | 50.0 | 08/21/20 18:52 |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | <50.0        | 50.0            | 50.0 | 08/21/20 18:52 |            |
| 1,2-Dichlorobenzene         | ug/kg | <100         | 100             | 100  | 08/21/20 18:52 |            |
| 1,2-Dichloroethane          | ug/kg | <50.0        | 50.0            | 50.0 | 08/21/20 18:52 |            |
| 1,2-Dichloropropane         | ug/kg | <50.0        | 50.0            | 50.0 | 08/21/20 18:52 |            |
| 1,3,5-Trimethylbenzene      | ug/kg | <100         | 100             | 100  | 08/21/20 18:52 |            |
| 1,3-Dichlorobenzene         | ug/kg | <100         | 100             | 100  | 08/21/20 18:52 |            |
| 1,4-Dichlorobenzene         | ug/kg | <100         | 100             | 100  | 08/21/20 18:52 |            |
| 2-Butanone (MEK)            | ug/kg | <750         | 750             | 750  | 08/21/20 18:52 |            |
| 2-Hexanone                  | ug/kg | <2500        | 2500            | 2500 | 08/21/20 18:52 |            |
| 2-Methylnaphthalene         | ug/kg | <330         | 330             | 330  | 08/21/20 18:52 |            |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | <2500        | 2500            | 2500 | 08/21/20 18:52 |            |
| Acetone                     | ug/kg | <1000        | 1000            | 1000 | 08/21/20 18:52 |            |
| Acrylonitrile               | ug/kg | <100         | 100             | 100  | 08/21/20 18:52 |            |
| Benzene                     | ug/kg | <50.0        | 50.0            | 50.0 | 08/21/20 18:52 |            |
| Bromobenzene                | ug/kg | <100         | 100             | 100  | 08/21/20 18:52 |            |
| Bromochloromethane          | ug/kg | <25.0        | 50.0            | 25.0 | 08/21/20 18:52 |            |
| Bromodichloromethane        | ug/kg | <100         | 100             | 100  | 08/21/20 18:52 |            |
| Bromoform                   | ug/kg | <100         | 100             | 100  | 08/21/20 18:52 |            |
| Bromomethane                | ug/kg | <200         | 200             | 200  | 08/21/20 18:52 |            |
| Carbon disulfide            | ug/kg | <250         | 250             | 250  | 08/21/20 18:52 |            |
| Carbon tetrachloride        | ug/kg | <50.0        | 50.0            | 50.0 | 08/21/20 18:52 |            |
| Chlorobenzene               | ug/kg | <50.0        | 50.0            | 50.0 | 08/21/20 18:52 |            |
| Chloroethane                | ug/kg | <250         | 250             | 250  | 08/21/20 18:52 |            |
| Chloroform                  | ug/kg | <50.0        | 50.0            | 50.0 | 08/21/20 18:52 |            |
| Chloromethane               | ug/kg | <250         | 250             | 250  | 08/21/20 18:52 |            |
| cis-1,2-Dichloroethene      | ug/kg | <50.0        | 50.0            | 50.0 | 08/21/20 18:52 |            |
| cis-1,3-Dichloropropene     | ug/kg | <100         | 100             | 100  | 08/21/20 18:52 |            |
| Cyclohexane                 | ug/kg | <500         | 500             | 500  | 08/21/20 18:52 | N2         |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

METHOD BLANK: 2665591 Matrix: Solid

Associated Lab Samples: 50264929004, 50264929005

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| Dibromochloromethane        | ug/kg | <100         | 100             | 100  | 08/21/20 18:52 |            |
| Dibromomethane              | ug/kg | <250         | 250             | 250  | 08/21/20 18:52 |            |
| Dichlorodifluoromethane     | ug/kg | <250         | 250             | 250  | 08/21/20 18:52 |            |
| Diethyl ether (Ethyl ether) | ug/kg | <200         | 200             | 200  | 08/21/20 18:52 |            |
| Diisopropyl ether           | ug/kg | <250         | 250             | 250  | 08/21/20 18:52 | N2         |
| Ethyl-tert-butyl ether      | ug/kg | <250         | 250             | 250  | 08/21/20 18:52 | N2         |
| Ethylbenzene                | ug/kg | <50.0        | 50.0            | 50.0 | 08/21/20 18:52 |            |
| Hexachloroethane            | ug/kg | <300         | 300             | 300  | 08/21/20 18:52 | N2         |
| Iodomethane                 | ug/kg | <100         | 1000            | 100  | 08/21/20 18:52 |            |
| Isopropylbenzene (Cumene)   | ug/kg | <250         | 250             | 250  | 08/21/20 18:52 |            |
| m&p-Xylene                  | ug/kg | <25.0        | 50.0            | 25.0 | 08/21/20 18:52 |            |
| Methyl-tert-butyl ether     | ug/kg | <250         | 250             | 250  | 08/21/20 18:52 |            |
| Methylene Chloride          | ug/kg | <100         | 100             | 100  | 08/21/20 18:52 |            |
| n-Butylbenzene              | ug/kg | <50.0        | 50.0            | 50.0 | 08/21/20 18:52 |            |
| n-Propylbenzene             | ug/kg | <100         | 100             | 100  | 08/21/20 18:52 |            |
| Naphthalene                 | ug/kg | <330         | 330             | 330  | 08/21/20 18:52 |            |
| o-Xylene                    | ug/kg | <25.0        | 50.0            | 25.0 | 08/21/20 18:52 |            |
| p-Isopropyltoluene          | ug/kg | <25.0        | 50.0            | 25.0 | 08/21/20 18:52 |            |
| sec-Butylbenzene            | ug/kg | <50.0        | 50.0            | 50.0 | 08/21/20 18:52 |            |
| Styrene                     | ug/kg | <50.0        | 50.0            | 50.0 | 08/21/20 18:52 |            |
| tert-Amylmethyl ether       | ug/kg | <250         | 250             | 250  | 08/21/20 18:52 | N2         |
| tert-Butyl Alcohol          | ug/kg | <2500        | 2500            | 2500 | 08/21/20 18:52 |            |
| tert-Butylbenzene           | ug/kg | <50.0        | 50.0            | 50.0 | 08/21/20 18:52 |            |
| Tetrachloroethane           | ug/kg | <50.0        | 50.0            | 50.0 | 08/21/20 18:52 |            |
| Tetrahydrofuran             | ug/kg | <1000        | 1000            | 1000 | 08/21/20 18:52 | N2         |
| Toluene                     | ug/kg | <100         | 100             | 100  | 08/21/20 18:52 |            |
| trans-1,2-Dichloroethene    | ug/kg | <50.0        | 50.0            | 50.0 | 08/21/20 18:52 |            |
| trans-1,3-Dichloropropene   | ug/kg | <100         | 100             | 100  | 08/21/20 18:52 |            |
| trans-1,4-Dichloro-2-butene | ug/kg | <100         | 1000            | 100  | 08/21/20 18:52 |            |
| Trichloroethene             | ug/kg | <50.0        | 50.0            | 50.0 | 08/21/20 18:52 |            |
| Trichlorofluoromethane      | ug/kg | <100         | 100             | 100  | 08/21/20 18:52 |            |
| Vinyl chloride              | ug/kg | <40.0        | 40.0            | 40.0 | 08/21/20 18:52 |            |
| 4-Bromofluorobenzene (S)    | %     | 99           | 60-142          |      | 08/21/20 18:52 |            |
| Dibromofluoromethane (S)    | %     | 101          | 62-137          |      | 08/21/20 18:52 |            |
| Toluene-d8 (S)              | %     | 94           | 64-139          |      | 08/21/20 18:52 |            |

LABORATORY CONTROL SAMPLE: 2665592

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/kg | 100         | <100       | 94        | 82-119       |            |
| 1,1,1-Trichloroethane     | ug/kg | 100         | 101        | 101       | 82-125       |            |
| 1,1,2,2-Tetrachloroethane | ug/kg | 100         | 74.6       | 75        | 54-137       |            |
| 1,1,2-Trichloroethane     | ug/kg | 100         | 83.9       | 84        | 77-122       |            |
| 1,1-Dichloroethane        | ug/kg | 100         | 95.1       | 95        | 68-126       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50264929

LABORATORY CONTROL SAMPLE: 2665592

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1-Dichloroethene          | ug/kg | 100         | 102        | 102       | 77-126       |            |
| 1,2,3-Trichlorobenzene      | ug/kg | 100         | <250       | 139       | 72-126       | L1         |
| 1,2,3-Trichloropropane      | ug/kg | 100         | <100       | 82        | 66-125       |            |
| 1,2,4-Trichlorobenzene      | ug/kg | 100         | <250       | 112       | 79-124       |            |
| 1,2,4-Trimethylbenzene      | ug/kg | 100         | <100       | 87        | 78-125       |            |
| 1,2-Dibromo-3-chloropropane | ug/kg | 100         | 92.6       | 93        | 64-133       |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | 100         | 85.1       | 85        | 78-124       |            |
| 1,2-Dichlorobenzene         | ug/kg | 100         | <100       | 87        | 79-117       |            |
| 1,2-Dichloroethane          | ug/kg | 100         | 87.7       | 88        | 74-116       |            |
| 1,2-Dichloropropane         | ug/kg | 100         | 87.6       | 88        | 70-142       |            |
| 1,3,5-Trimethylbenzene      | ug/kg | 100         | <100       | 85        | 76-122       |            |
| 1,3-Dichlorobenzene         | ug/kg | 100         | <100       | 91        | 80-118       |            |
| 1,4-Dichlorobenzene         | ug/kg | 100         | <100       | 80        | 76-115       |            |
| 2-Butanone (MEK)            | ug/kg | 500         | <750       | 87        | 65-126       |            |
| 2-Hexanone                  | ug/kg | 500         | <2500      | 81        | 54-141       |            |
| 2-Methylnaphthalene         | ug/kg | 100         | <330       | 99        | 47-148       |            |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | 500         | <2500      | 78        | 60-133       |            |
| Acetone                     | ug/kg | 500         | <1000      | 94        | 49-139       |            |
| Acrylonitrile               | ug/kg | 400         | 339        | 85        | 66-133       |            |
| Benzene                     | ug/kg | 100         | 89.7       | 90        | 71-126       |            |
| Bromobenzene                | ug/kg | 100         | <100       | 90        | 77-119       |            |
| Bromochloromethane          | ug/kg | 100         | 76.7       | 77        | 60-117       |            |
| Bromodichloromethane        | ug/kg | 100         | <100       | 91        | 79-122       |            |
| Bromoform                   | ug/kg | 100         | <100       | 88        | 64-121       |            |
| Bromomethane                | ug/kg | 100         | <200       | 92        | 10-200       |            |
| Carbon disulfide            | ug/kg | 100         | <250       | 95        | 54-129       |            |
| Carbon tetrachloride        | ug/kg | 100         | 101        | 101       | 78-120       |            |
| Chlorobenzene               | ug/kg | 100         | 89.6       | 90        | 81-117       |            |
| Chloroethane                | ug/kg | 100         | <250       | 102       | 54-134       |            |
| Chloroform                  | ug/kg | 100         | 92.6       | 93        | 80-119       |            |
| Chloromethane               | ug/kg | 100         | <250       | 113       | 31-118       |            |
| cis-1,2-Dichloroethene      | ug/kg | 100         | 91.0       | 91        | 77-125       |            |
| cis-1,3-Dichloropropene     | ug/kg | 100         | <100       | 86        | 74-133       |            |
| Cyclohexane                 | ug/kg | 100         | <500       | 101       | 49-128       | N2         |
| Dibromochloromethane        | ug/kg | 100         | <100       | 92        | 78-124       |            |
| Dibromomethane              | ug/kg | 100         | <250       | 87        | 73-129       |            |
| Dichlorodifluoromethane     | ug/kg | 100         | <250       | 122       | 32-173       |            |
| Diethyl ether (Ethyl ether) | ug/kg | 100         | <200       | 103       | 50-150       |            |
| Ethylbenzene                | ug/kg | 100         | 93.0       | 93        | 74-127       |            |
| Iodomethane                 | ug/kg | 200         | 410J       | 205       | 10-200       | L1         |
| Isopropylbenzene (Cumene)   | ug/kg | 100         | <250       | 99        | 85-121       |            |
| m&p-Xylene                  | ug/kg | 200         | 174        | 87        | 72-130       |            |
| Methyl-tert-butyl ether     | ug/kg | 100         | <250       | 91        | 78-135       |            |
| Methylene Chloride          | ug/kg | 100         | 101        | 101       | 73-119       |            |
| n-Butylbenzene              | ug/kg | 100         | 92.3       | 92        | 69-126       |            |
| n-Propylbenzene             | ug/kg | 100         | <100       | 82        | 73-124       |            |
| Naphthalene                 | ug/kg | 100         | <330       | 110       | 71-128       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

LABORATORY CONTROL SAMPLE: 2665592

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| o-Xylene                    | ug/kg | 100         | 91.6       | 92        | 74-128       |            |
| p-Isopropyltoluene          | ug/kg | 100         | 92.7       | 93        | 74-124       |            |
| sec-Butylbenzene            | ug/kg | 100         | 89.8       | 90        | 72-124       |            |
| Styrene                     | ug/kg | 100         | 92.7       | 93        | 83-121       |            |
| tert-Butyl Alcohol          | ug/kg | 200         | <2500      | 90        | 50-150       |            |
| tert-Butylbenzene           | ug/kg | 100         | 70.4       | 70        | 54-104       |            |
| Tetrachloroethene           | ug/kg | 100         | 92.7       | 93        | 74-120       |            |
| Tetrahydrofuran             | ug/kg | 100         | <1000      | 97        | 53-135 N2    |            |
| Toluene                     | ug/kg | 100         | <100       | 85        | 71-124       |            |
| trans-1,2-Dichloroethene    | ug/kg | 100         | 100        | 100       | 73-131       |            |
| trans-1,3-Dichloropropene   | ug/kg | 100         | <100       | 89        | 68-128       |            |
| trans-1,4-Dichloro-2-butene | ug/kg | 400         | 382J       | 96        | 22-132       |            |
| Trichloroethene             | ug/kg | 100         | 92.3       | 92        | 75-121       |            |
| Trichlorofluoromethane      | ug/kg | 100         | <100       | 97        | 64-135       |            |
| Vinyl chloride              | ug/kg | 100         | 112        | 112       | 51-137       |            |
| 4-Bromofluorobenzene (S)    | %     |             |            | 103       | 60-142       |            |
| Dibromofluoromethane (S)    | %     |             |            | 103       | 62-137       |            |
| Toluene-d8 (S)              | %     |             |            | 93        | 64-139       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

QC Batch: 578538 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035 Volatile Organics  
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50264929006

METHOD BLANK: 2667359 Matrix: Solid  
Associated Lab Samples: 50264929006

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/kg | <100         | 100             | 100  | 08/25/20 15:42 |            |
| 1,1,1-Trichloroethane       | ug/kg | <50.0        | 50.0            | 50.0 | 08/25/20 15:42 |            |
| 1,1,2,2-Tetrachloroethane   | ug/kg | <50.0        | 50.0            | 50.0 | 08/25/20 15:42 |            |
| 1,1,2-Trichloroethane       | ug/kg | <50.0        | 50.0            | 50.0 | 08/25/20 15:42 |            |
| 1,1-Dichloroethane          | ug/kg | <50.0        | 50.0            | 50.0 | 08/25/20 15:42 |            |
| 1,1-Dichloroethene          | ug/kg | <50.0        | 50.0            | 50.0 | 08/25/20 15:42 |            |
| 1,2,3-Trichlorobenzene      | ug/kg | <250         | 250             | 250  | 08/25/20 15:42 |            |
| 1,2,3-Trichloropropane      | ug/kg | <100         | 100             | 100  | 08/25/20 15:42 |            |
| 1,2,3-Trimethylbenzene      | ug/kg | <250         | 250             | 250  | 08/25/20 15:42 | N2         |
| 1,2,4-Trichlorobenzene      | ug/kg | <250         | 250             | 250  | 08/25/20 15:42 |            |
| 1,2,4-Trimethylbenzene      | ug/kg | <100         | 100             | 100  | 08/25/20 15:42 |            |
| 1,2-Dibromo-3-chloropropane | ug/kg | <50.0        | 50.0            | 50.0 | 08/25/20 15:42 |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | <50.0        | 50.0            | 50.0 | 08/25/20 15:42 |            |
| 1,2-Dichlorobenzene         | ug/kg | <100         | 100             | 100  | 08/25/20 15:42 |            |
| 1,2-Dichloroethane          | ug/kg | <50.0        | 50.0            | 50.0 | 08/25/20 15:42 |            |
| 1,2-Dichloropropane         | ug/kg | <50.0        | 50.0            | 50.0 | 08/25/20 15:42 |            |
| 1,3,5-Trimethylbenzene      | ug/kg | <100         | 100             | 100  | 08/25/20 15:42 |            |
| 1,3-Dichlorobenzene         | ug/kg | <100         | 100             | 100  | 08/25/20 15:42 |            |
| 1,4-Dichlorobenzene         | ug/kg | <100         | 100             | 100  | 08/25/20 15:42 |            |
| 2-Butanone (MEK)            | ug/kg | <750         | 750             | 750  | 08/25/20 15:42 |            |
| 2-Hexanone                  | ug/kg | <2500        | 2500            | 2500 | 08/25/20 15:42 |            |
| 2-Methylnaphthalene         | ug/kg | <330         | 330             | 330  | 08/25/20 15:42 |            |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | <2500        | 2500            | 2500 | 08/25/20 15:42 |            |
| Acetone                     | ug/kg | <1000        | 1000            | 1000 | 08/25/20 15:42 |            |
| Acrylonitrile               | ug/kg | <100         | 100             | 100  | 08/25/20 15:42 |            |
| Benzene                     | ug/kg | <50.0        | 50.0            | 50.0 | 08/25/20 15:42 |            |
| Bromobenzene                | ug/kg | <100         | 100             | 100  | 08/25/20 15:42 |            |
| Bromochloromethane          | ug/kg | <25.0        | 50.0            | 25.0 | 08/25/20 15:42 |            |
| Bromodichloromethane        | ug/kg | <100         | 100             | 100  | 08/25/20 15:42 |            |
| Bromoform                   | ug/kg | <100         | 100             | 100  | 08/25/20 15:42 |            |
| Bromomethane                | ug/kg | <200         | 200             | 200  | 08/25/20 15:42 |            |
| Carbon disulfide            | ug/kg | <250         | 250             | 250  | 08/25/20 15:42 |            |
| Carbon tetrachloride        | ug/kg | <50.0        | 50.0            | 50.0 | 08/25/20 15:42 |            |
| Chlorobenzene               | ug/kg | <50.0        | 50.0            | 50.0 | 08/25/20 15:42 |            |
| Chloroethane                | ug/kg | <250         | 250             | 250  | 08/25/20 15:42 |            |
| Chloroform                  | ug/kg | <50.0        | 50.0            | 50.0 | 08/25/20 15:42 |            |
| Chloromethane               | ug/kg | <250         | 250             | 250  | 08/25/20 15:42 |            |
| cis-1,2-Dichloroethene      | ug/kg | <50.0        | 50.0            | 50.0 | 08/25/20 15:42 |            |
| cis-1,3-Dichloropropene     | ug/kg | <100         | 100             | 100  | 08/25/20 15:42 |            |
| Cyclohexane                 | ug/kg | <500         | 500             | 500  | 08/25/20 15:42 | N2         |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

METHOD BLANK: 2667359 Matrix: Solid  
Associated Lab Samples: 50264929006

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| Dibromochloromethane        | ug/kg | <100         | 100             | 100  | 08/25/20 15:42 |            |
| Dibromomethane              | ug/kg | <250         | 250             | 250  | 08/25/20 15:42 |            |
| Dichlorodifluoromethane     | ug/kg | <250         | 250             | 250  | 08/25/20 15:42 |            |
| Diethyl ether (Ethyl ether) | ug/kg | <200         | 200             | 200  | 08/25/20 15:42 |            |
| Diisopropyl ether           | ug/kg | <250         | 250             | 250  | 08/25/20 15:42 | N2         |
| Ethyl-tert-butyl ether      | ug/kg | <250         | 250             | 250  | 08/25/20 15:42 | N2         |
| Ethylbenzene                | ug/kg | <50.0        | 50.0            | 50.0 | 08/25/20 15:42 |            |
| Hexachloroethane            | ug/kg | <300         | 300             | 300  | 08/25/20 15:42 | N2         |
| Iodomethane                 | ug/kg | <100         | 1000            | 100  | 08/25/20 15:42 |            |
| Isopropylbenzene (Cumene)   | ug/kg | <250         | 250             | 250  | 08/25/20 15:42 |            |
| m&p-Xylene                  | ug/kg | <25.0        | 50.0            | 25.0 | 08/25/20 15:42 |            |
| Methyl-tert-butyl ether     | ug/kg | <250         | 250             | 250  | 08/25/20 15:42 |            |
| Methylene Chloride          | ug/kg | <100         | 100             | 100  | 08/25/20 15:42 |            |
| n-Butylbenzene              | ug/kg | <50.0        | 50.0            | 50.0 | 08/25/20 15:42 |            |
| n-Propylbenzene             | ug/kg | <100         | 100             | 100  | 08/25/20 15:42 |            |
| Naphthalene                 | ug/kg | <330         | 330             | 330  | 08/25/20 15:42 |            |
| o-Xylene                    | ug/kg | <25.0        | 50.0            | 25.0 | 08/25/20 15:42 |            |
| p-Isopropyltoluene          | ug/kg | <25.0        | 50.0            | 25.0 | 08/25/20 15:42 |            |
| sec-Butylbenzene            | ug/kg | <50.0        | 50.0            | 50.0 | 08/25/20 15:42 |            |
| Styrene                     | ug/kg | <50.0        | 50.0            | 50.0 | 08/25/20 15:42 |            |
| tert-Amylmethyl ether       | ug/kg | <250         | 250             | 250  | 08/25/20 15:42 | N2         |
| tert-Butyl Alcohol          | ug/kg | <2500        | 2500            | 2500 | 08/25/20 15:42 |            |
| tert-Butylbenzene           | ug/kg | <50.0        | 50.0            | 50.0 | 08/25/20 15:42 |            |
| Tetrachloroethane           | ug/kg | <50.0        | 50.0            | 50.0 | 08/25/20 15:42 |            |
| Tetrahydrofuran             | ug/kg | <1000        | 1000            | 1000 | 08/25/20 15:42 | N2         |
| Toluene                     | ug/kg | <100         | 100             | 100  | 08/25/20 15:42 |            |
| trans-1,2-Dichloroethene    | ug/kg | <50.0        | 50.0            | 50.0 | 08/25/20 15:42 |            |
| trans-1,3-Dichloropropene   | ug/kg | <100         | 100             | 100  | 08/25/20 15:42 |            |
| trans-1,4-Dichloro-2-butene | ug/kg | <100         | 1000            | 100  | 08/25/20 15:42 |            |
| Trichloroethene             | ug/kg | <50.0        | 50.0            | 50.0 | 08/25/20 15:42 |            |
| Trichlorofluoromethane      | ug/kg | <100         | 100             | 100  | 08/25/20 15:42 |            |
| Vinyl chloride              | ug/kg | <40.0        | 40.0            | 40.0 | 08/25/20 15:42 |            |
| 4-Bromofluorobenzene (S)    | %     | 100          | 60-142          |      | 08/25/20 15:42 |            |
| Dibromofluoromethane (S)    | %     | 100          | 62-137          |      | 08/25/20 15:42 |            |
| Toluene-d8 (S)              | %     | 93           | 64-139          |      | 08/25/20 15:42 |            |

LABORATORY CONTROL SAMPLE: 2667360

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/kg | 100         | <100       | 97        | 82-119       |            |
| 1,1,1-Trichloroethane     | ug/kg | 100         | 109        | 109       | 82-125       |            |
| 1,1,2,2-Tetrachloroethane | ug/kg | 100         | 79.4       | 79        | 54-137       |            |
| 1,1,2-Trichloroethane     | ug/kg | 100         | 87.4       | 87        | 77-122       |            |
| 1,1-Dichloroethane        | ug/kg | 100         | 103        | 103       | 68-126       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50264929

LABORATORY CONTROL SAMPLE: 2667360

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1-Dichloroethene          | ug/kg | 100         | 109        | 109       | 77-126       |            |
| 1,2,3-Trichlorobenzene      | ug/kg | 100         | <250       | 150       | 72-126       | L1         |
| 1,2,3-Trichloropropane      | ug/kg | 100         | <100       | 88        | 66-125       |            |
| 1,2,4-Trichlorobenzene      | ug/kg | 100         | <250       | 121       | 79-124       |            |
| 1,2,4-Trimethylbenzene      | ug/kg | 100         | <100       | 93        | 78-125       |            |
| 1,2-Dibromo-3-chloropropane | ug/kg | 100         | 97.6       | 98        | 64-133       |            |
| 1,2-Dibromoethane (EDB)     | ug/kg | 100         | 88.9       | 89        | 78-124       |            |
| 1,2-Dichlorobenzene         | ug/kg | 100         | <100       | 90        | 79-117       |            |
| 1,2-Dichloroethane          | ug/kg | 100         | 87.3       | 87        | 74-116       |            |
| 1,2-Dichloropropane         | ug/kg | 100         | 93.3       | 93        | 70-142       |            |
| 1,3,5-Trimethylbenzene      | ug/kg | 100         | <100       | 91        | 76-122       |            |
| 1,3-Dichlorobenzene         | ug/kg | 100         | <100       | 94        | 80-118       |            |
| 1,4-Dichlorobenzene         | ug/kg | 100         | <100       | 84        | 76-115       |            |
| 2-Butanone (MEK)            | ug/kg | 500         | <750       | 95        | 65-126       |            |
| 2-Hexanone                  | ug/kg | 500         | <2500      | 85        | 54-141       |            |
| 2-Methylnaphthalene         | ug/kg | 100         | <330       | 106       | 47-148       |            |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | 500         | <2500      | 83        | 60-133       |            |
| Acetone                     | ug/kg | 500         | <1000      | 103       | 49-139       |            |
| Acrylonitrile               | ug/kg | 400         | 370        | 92        | 66-133       |            |
| Benzene                     | ug/kg | 100         | 94.6       | 95        | 71-126       |            |
| Bromobenzene                | ug/kg | 100         | <100       | 93        | 77-119       |            |
| Bromochloromethane          | ug/kg | 100         | 81.7       | 82        | 60-117       |            |
| Bromodichloromethane        | ug/kg | 100         | <100       | 96        | 79-122       |            |
| Bromoform                   | ug/kg | 100         | <100       | 92        | 64-121       |            |
| Bromomethane                | ug/kg | 100         | <200       | 111       | 10-200       |            |
| Carbon disulfide            | ug/kg | 100         | <250       | 101       | 54-129       |            |
| Carbon tetrachloride        | ug/kg | 100         | 107        | 107       | 78-120       |            |
| Chlorobenzene               | ug/kg | 100         | 92.5       | 93        | 81-117       |            |
| Chloroethane                | ug/kg | 100         | <250       | 110       | 54-134       |            |
| Chloroform                  | ug/kg | 100         | 97.4       | 97        | 80-119       |            |
| Chloromethane               | ug/kg | 100         | <250       | 130       | 31-118       | L1         |
| cis-1,2-Dichloroethene      | ug/kg | 100         | 97.0       | 97        | 77-125       |            |
| cis-1,3-Dichloropropene     | ug/kg | 100         | <100       | 91        | 74-133       |            |
| Cyclohexane                 | ug/kg | 100         | <500       | 105       | 49-128       | N2         |
| Dibromochloromethane        | ug/kg | 100         | <100       | 94        | 78-124       |            |
| Dibromomethane              | ug/kg | 100         | <250       | 93        | 73-129       |            |
| Dichlorodifluoromethane     | ug/kg | 100         | <250       | 121       | 32-173       |            |
| Diethyl ether (Ethyl ether) | ug/kg | 100         | <200       | 112       | 50-150       |            |
| Ethylbenzene                | ug/kg | 100         | 94.6       | 95        | 74-127       |            |
| Iodomethane                 | ug/kg | 200         | 467J       | 234       | 10-200       | L1         |
| Isopropylbenzene (Cumene)   | ug/kg | 100         | <250       | 102       | 85-121       |            |
| m&p-Xylene                  | ug/kg | 200         | 181        | 90        | 72-130       |            |
| Methyl-tert-butyl ether     | ug/kg | 100         | <250       | 95        | 78-135       |            |
| Methylene Chloride          | ug/kg | 100         | 107        | 107       | 73-119       |            |
| n-Butylbenzene              | ug/kg | 100         | 97.5       | 97        | 69-126       |            |
| n-Propylbenzene             | ug/kg | 100         | <100       | 87        | 73-124       |            |
| Naphthalene                 | ug/kg | 100         | <330       | 115       | 71-128       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

LABORATORY CONTROL SAMPLE: 2667360

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| o-Xylene                    | ug/kg | 100         | 94.8       | 95        | 74-128       |            |
| p-Isopropyltoluene          | ug/kg | 100         | 98.0       | 98        | 74-124       |            |
| sec-Butylbenzene            | ug/kg | 100         | 95.5       | 95        | 72-124       |            |
| Styrene                     | ug/kg | 100         | 96.3       | 96        | 83-121       |            |
| tert-Butyl Alcohol          | ug/kg | 200         | <2500      | 96        | 50-150       |            |
| tert-Butylbenzene           | ug/kg | 100         | 74.3       | 74        | 54-104       |            |
| Tetrachloroethene           | ug/kg | 100         | 95.5       | 95        | 74-120       |            |
| Tetrahydrofuran             | ug/kg | 100         | <1000      | 105       | 53-135 N2    |            |
| Toluene                     | ug/kg | 100         | <100       | 89        | 71-124       |            |
| trans-1,2-Dichloroethene    | ug/kg | 100         | 104        | 104       | 73-131       |            |
| trans-1,3-Dichloropropene   | ug/kg | 100         | <100       | 92        | 68-128       |            |
| trans-1,4-Dichloro-2-butene | ug/kg | 400         | 381J       | 95        | 22-132       |            |
| Trichloroethene             | ug/kg | 100         | 93.5       | 93        | 75-121       |            |
| Trichlorofluoromethane      | ug/kg | 100         | 101        | 101       | 64-135       |            |
| Vinyl chloride              | ug/kg | 100         | 123        | 123       | 51-137       |            |
| 4-Bromofluorobenzene (S)    | %     |             |            | 103       | 60-142       |            |
| Dibromofluoromethane (S)    | %     |             |            | 103       | 62-137       |            |
| Toluene-d8 (S)              | %     |             |            | 94        | 64-139       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

QC Batch: 577464 Analysis Method: EPA 8082  
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB  
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50264929004

METHOD BLANK: 2662698 Matrix: Solid  
Associated Lab Samples: 50264929004

| Parameter                | Units | Blank Result | Reporting Limit | MDL | Analyzed       | Qualifiers |
|--------------------------|-------|--------------|-----------------|-----|----------------|------------|
| PCB-1016 (Aroclor 1016)  | ug/kg | <328         | 328             | 328 | 08/20/20 11:57 |            |
| PCB-1221 (Aroclor 1221)  | ug/kg | <328         | 328             | 328 | 08/20/20 11:57 |            |
| PCB-1232 (Aroclor 1232)  | ug/kg | <328         | 328             | 328 | 08/20/20 11:57 |            |
| PCB-1242 (Aroclor 1242)  | ug/kg | <328         | 328             | 328 | 08/20/20 11:57 |            |
| PCB-1248 (Aroclor 1248)  | ug/kg | <328         | 328             | 328 | 08/20/20 11:57 |            |
| PCB-1254 (Aroclor 1254)  | ug/kg | <328         | 328             | 328 | 08/20/20 11:57 |            |
| PCB-1260 (Aroclor 1260)  | ug/kg | <328         | 328             | 328 | 08/20/20 11:57 |            |
| PCB-1262 (Aroclor 1262)  | ug/kg | <328         | 328             | 328 | 08/20/20 11:57 | N2         |
| PCB-1268 (Aroclor 1268)  | ug/kg | <328         | 328             | 328 | 08/20/20 11:57 | N2         |
| Tetrachloro-m-xylene (S) | %     | 72           | 25-123          |     | 08/20/20 11:57 |            |

LABORATORY CONTROL SAMPLE: 2662699

| Parameter                | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| PCB-1016 (Aroclor 1016)  | ug/kg | 166         | <328       | 84        | 54-128       |            |
| PCB-1260 (Aroclor 1260)  | ug/kg | 166         | <328       | 84        | 36-118       |            |
| Tetrachloro-m-xylene (S) | %     |             |            | 75        | 25-123       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2662700 2662701

| Parameter                | Units | 50264929004    |                 | 2662701   |            | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Qual  |
|--------------------------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|---------|-------|
|                          |       | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result |          |           |              |         |       |
| PCB-1016 (Aroclor 1016)  | ug/kg | <359           | 186             | 188       | <369       | <373     | 28        | 42           | 10-145  | 20    |
| PCB-1260 (Aroclor 1260)  | ug/kg | <359           | 186             | 188       | <369       | <373     | 0         | 56           | 11-124  | 20 M0 |
| Tetrachloro-m-xylene (S) | %     |                |                 |           |            |          | 35        | 52           | 25-123  |       |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

QC Batch: 578700 Analysis Method: EPA 8082  
QC Batch Method: EPA 3510 Analysis Description: 8082 GCS PCB Mod  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50264929002, 50264929003

METHOD BLANK: 2668148 Matrix: Water  
Associated Lab Samples: 50264929002, 50264929003

| Parameter                | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|--------------------------|-------|--------------|-----------------|------|----------------|------------|
| PCB-1016 (Aroclor 1016)  | ug/L  | <0.20        | 0.20            | 0.20 | 08/26/20 23:29 |            |
| PCB-1221 (Aroclor 1221)  | ug/L  | <0.20        | 0.20            | 0.20 | 08/26/20 23:29 |            |
| PCB-1232 (Aroclor 1232)  | ug/L  | <0.20        | 0.20            | 0.20 | 08/26/20 23:29 |            |
| PCB-1242 (Aroclor 1242)  | ug/L  | <0.20        | 0.20            | 0.20 | 08/26/20 23:29 |            |
| PCB-1248 (Aroclor 1248)  | ug/L  | <0.20        | 0.20            | 0.20 | 08/26/20 23:29 |            |
| PCB-1254 (Aroclor 1254)  | ug/L  | <0.20        | 0.20            | 0.20 | 08/26/20 23:29 |            |
| PCB-1260 (Aroclor 1260)  | ug/L  | <0.20        | 0.20            | 0.20 | 08/26/20 23:29 |            |
| PCB-1262 (Aroclor 1262)  | ug/L  | <0.20        | 0.20            | 0.20 | 08/26/20 23:29 | N2         |
| PCB-1268 (Aroclor 1268)  | ug/L  | <0.20        | 0.20            | 0.20 | 08/26/20 23:29 | N2         |
| Tetrachloro-m-xylene (S) | %     | 65           | 10-144          |      | 08/26/20 23:29 |            |

LABORATORY CONTROL SAMPLE: 2668149

| Parameter                | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| PCB-1016 (Aroclor 1016)  | ug/L  | 5           | 4.9        | 99        | 45-148       |            |
| PCB-1260 (Aroclor 1260)  | ug/L  | 5           | 5.3        | 106       | 48-142       |            |
| Tetrachloro-m-xylene (S) | %     |             |            | 83        | 10-144       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

|                           |   |
|---------------------------|---|
| QC Batch: 577938          | Analysis Method: EPA 8270                                   |
| QC Batch Method: EPA 3546 | Analysis Description: 8270 Solid MSSV Microwave Short Spike |
|                           | Laboratory: Pace Analytical Services - Indianapolis         |

Associated Lab Samples: 50264929004, 50264929005

METHOD BLANK: 2664887 Matrix: Solid

Associated Lab Samples: 50264929004, 50264929005

| Parameter                    | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|------------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2,4-Trichlorobenzene       | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| 1,2-Diphenylhydrazine        | ug/kg | <1580        | 1580            | 1580 | 08/24/20 13:52 |            |
| 2,4,5-Trichlorophenol        | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| 2,4,6-Trichlorophenol        | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| 2,4-Dichlorophenol           | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| 2,4-Dimethylphenol           | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| 2,4-Dinitrophenol            | ug/kg | <1580        | 1580            | 1580 | 08/24/20 13:52 |            |
| 2,4-Dinitrotoluene           | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| 2,6-Dinitrotoluene           | ug/kg | <87.6        | 327             | 87.6 | 08/24/20 13:52 |            |
| 2-Chloronaphthalene          | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| 2-Chlorophenol               | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| 2-Methylnaphthalene          | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| 2-Methylphenol(o-Cresol)     | ug/kg | <990         | 990             | 990  | 08/24/20 13:52 |            |
| 2-Nitroaniline               | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| 2-Nitrophenol                | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| 3&4-Methylphenol(m&p Cresol) | ug/kg | <990         | 990             | 990  | 08/24/20 13:52 |            |
| 3-Nitroaniline               | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| 4,6-Dinitro-2-methylphenol   | ug/kg | <822         | 822             | 822  | 08/24/20 13:52 |            |
| 4-Bromophenylphenyl ether    | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| 4-Chloro-3-methylphenol      | ug/kg | <277         | 327             | 277  | 08/24/20 13:52 |            |
| 4-Chlorophenylphenyl ether   | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| 4-Nitroaniline               | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| 4-Nitrophenol                | ug/kg | <1580        | 1580            | 1580 | 08/24/20 13:52 |            |
| Acenaphthene                 | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| Acenaphthylene               | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| Anthracene                   | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| Benzo(a)anthracene           | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| Benzo(a)pyrene               | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| Benzo(b)fluoranthene         | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| Benzo(g,h,i)perylene         | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| Benzo(k)fluoranthene         | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| bis(2-Chloroethoxy)methane   | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| bis(2-Chloroethyl) ether     | ug/kg | <158         | 327             | 158  | 08/24/20 13:52 |            |
| bis(2-Chloroisopropyl) ether | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| bis(2-Ethylhexyl)phthalate   | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| Butylbenzylphthalate         | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| Carbazole                    | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| Chrysene                     | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| Di-n-butylphthalate          | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| Di-n-octylphthalate          | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

METHOD BLANK: 2664887 Matrix: Solid

Associated Lab Samples: 50264929004, 50264929005

| Parameter                  | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|----------------------------|-------|--------------|-----------------|------|----------------|------------|
| Dibenz(a,h)anthracene      | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| Dibenzofuran               | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| Diethylphthalate           | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| Dimethylphthalate          | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| Fluoranthene               | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| Fluorene                   | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| Hexachloro-1,3-butadiene   | ug/kg | <95.0        | 327             | 95.0 | 08/24/20 13:52 |            |
| Hexachlorobenzene          | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| Hexachlorocyclopentadiene  | ug/kg | <990         | 990             | 990  | 08/24/20 13:52 |            |
| Hexachloroethane           | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| Indeno(1,2,3-cd)pyrene     | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| Isophorone                 | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| N-Nitroso-di-n-propylamine | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| N-Nitrosodimethylamine     | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| N-Nitrosodiphenylamine     | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| Naphthalene                | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| Nitrobenzene               | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| Pentachlorophenol          | ug/kg | <1460        | 1580            | 1460 | 08/24/20 13:52 |            |
| Phenanthrene               | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| Phenol                     | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| Pyrene                     | ug/kg | <327         | 327             | 327  | 08/24/20 13:52 |            |
| 2,4,6-Tribromophenol (S)   | %     | 89           | 20-109          |      | 08/24/20 13:52 |            |
| 2-Fluorobiphenyl (S)       | %     | 77           | 36-91           |      | 08/24/20 13:52 |            |
| 2-Fluorophenol (S)         | %     | 83           | 24-95           |      | 08/24/20 13:52 |            |
| Nitrobenzene-d5 (S)        | %     | 76           | 26-96           |      | 08/24/20 13:52 |            |
| p-Terphenyl-d14 (S)        | %     | 106          | 27-117          |      | 08/24/20 13:52 |            |
| Phenol-d5 (S)              | %     | 79           | 32-93           |      | 08/24/20 13:52 |            |

LABORATORY CONTROL SAMPLE: 2664888

| Parameter               | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2,4-Trichlorobenzene  | ug/kg | 1610        | 1260       | 78        | 52-89        |            |
| 2,4-Dinitrotoluene      | ug/kg | 1610        | 1510       | 94        | 41-116       |            |
| 2-Chlorophenol          | ug/kg | 1610        | 1280       | 80        | 48-97        |            |
| 2-Methylnaphthalene     | ug/kg | 1610        | 1030       | 64        | 51-98        |            |
| 4-Chloro-3-methylphenol | ug/kg | 1610        | 1450       | 90        | 51-108       |            |
| 4-Nitrophenol           | ug/kg | 1610        | <1550      | 76        | 42-118       |            |
| Acenaphthene            | ug/kg | 1610        | 1260       | 78        | 58-94        |            |
| Acenaphthylene          | ug/kg | 1610        | 1280       | 79        | 56-94        |            |
| Anthracene              | ug/kg | 1610        | 1330       | 82        | 59-98        |            |
| Benzo(a)anthracene      | ug/kg | 1610        | 1370       | 85        | 60-103       |            |
| Benzo(a)pyrene          | ug/kg | 1610        | 1440       | 90        | 57-96        |            |
| Benzo(b)fluoranthene    | ug/kg | 1610        | 1460       | 91        | 57-104       |            |
| Benzo(g,h,i)perylene    | ug/kg | 1610        | 1380       | 85        | 56-103       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

LABORATORY CONTROL SAMPLE: 2664888

| Parameter                  | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Benzo(k)fluoranthene       | ug/kg | 1610        | 1520       | 94        | 55-104       |            |
| Chrysene                   | ug/kg | 1610        | 1400       | 87        | 59-105       |            |
| Dibenz(a,h)anthracene      | ug/kg | 1610        | 1400       | 87        | 54-103       |            |
| Fluoranthene               | ug/kg | 1610        | 1470       | 91        | 57-107       |            |
| Fluorene                   | ug/kg | 1610        | 1320       | 82        | 58-101       |            |
| Indeno(1,2,3-cd)pyrene     | ug/kg | 1610        | 1350       | 84        | 54-104       |            |
| N-Nitroso-di-n-propylamine | ug/kg | 1610        | 1300       | 81        | 43-94        |            |
| Naphthalene                | ug/kg | 1610        | 1210       | 75        | 51-90        |            |
| Pentachlorophenol          | ug/kg | 1610        | <1420      | 77        | 24-118       |            |
| Phenanthrene               | ug/kg | 1610        | 1340       | 83        | 60-96        |            |
| Phenol                     | ug/kg | 1610        | 1320       | 82        | 44-101       |            |
| Pyrene                     | ug/kg | 1610        | 1370       | 85        | 59-108       |            |
| 2,4,6-Tribromophenol (S)   | %     |             |            | 85        | 20-109       |            |
| 2-Fluorobiphenyl (S)       | %     |             |            | 73        | 36-91        |            |
| 2-Fluorophenol (S)         | %     |             |            | 79        | 24-95        |            |
| Nitrobenzene-d5 (S)        | %     |             |            | 71        | 26-96        |            |
| p-Terphenyl-d14 (S)        | %     |             |            | 106       | 27-117       |            |
| Phenol-d5 (S)              | %     |             |            | 77        | 32-93        |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2664889 2664890

| Parameter                  | Units | MS                 |             | MSD         |       | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------|-------------|-------------|-------|-----------|------------|----------|-----------|--------------|-----|---------|------|
|                            |       | 50264933001 Result | Spike Conc. | Spike Conc. | Conc. |           |            |          |           |              |     |         |      |
| 1,2,4-Trichlorobenzene     | ug/kg | ND                 | 1690        | 1650        | 1150  | 938       | 68         | 57       | 30-96     | 20           | 20  |         |      |
| 2,4-Dinitrotoluene         | ug/kg | ND                 | 1690        | 1650        | 1060  | 845       | 63         | 51       | 10-127    | 23           | 20  | R1      |      |
| 2-Chlorophenol             | ug/kg | ND                 | 1690        | 1650        | 1250  | 1030      | 74         | 62       | 17-107    | 19           | 20  |         |      |
| 2-Methylnaphthalene        | ug/kg | ND                 | 1690        | 1650        | 975   | 802       | 58         | 49       | 20-120    | 19           | 20  |         |      |
| 4-Chloro-3-methylphenol    | ug/kg | ND                 | 1690        | 1650        | 1350  | 1140      | 80         | 69       | 22-117    | 16           | 20  |         |      |
| 4-Nitrophenol              | ug/kg | ND                 | 1690        | 1650        | <1620 | <1580     | 70         | 52       | 10-131    |              | 20  |         |      |
| Acenaphthene               | ug/kg | ND                 | 1690        | 1650        | 1220  | 987       | 72         | 60       | 19-115    | 21           | 20  | R1      |      |
| Acenaphthylene             | ug/kg | ND                 | 1690        | 1650        | 1240  | 1010      | 74         | 61       | 11-122    | 21           | 20  | R1      |      |
| Anthracene                 | ug/kg | ND                 | 1690        | 1650        | 1200  | 996       | 71         | 60       | 10-133    | 19           | 20  |         |      |
| Benzo(a)anthracene         | ug/kg | ND                 | 1690        | 1650        | 1310  | 1050      | 77         | 64       | 10-137    | 22           | 20  | R1      |      |
| Benzo(a)pyrene             | ug/kg | ND                 | 1690        | 1650        | 1340  | 1090      | 79         | 66       | 10-132    | 20           | 20  |         |      |
| Benzo(b)fluoranthene       | ug/kg | ND                 | 1690        | 1650        | 1450  | 1220      | 86         | 74       | 10-134    | 17           | 20  |         |      |
| Benzo(g,h,i)perylene       | ug/kg | ND                 | 1690        | 1650        | 1250  | 1010      | 74         | 61       | 10-138    | 21           | 20  | R1      |      |
| Benzo(k)fluoranthene       | ug/kg | ND                 | 1690        | 1650        | 1320  | 1060      | 78         | 64       | 10-140    | 22           | 20  | R1      |      |
| Chrysene                   | ug/kg | ND                 | 1690        | 1650        | 1270  | 1110      | 75         | 67       | 10-150    | 14           | 20  |         |      |
| Dibenz(a,h)anthracene      | ug/kg | ND                 | 1690        | 1650        | 1300  | 1030      | 77         | 62       | 10-126    | 23           | 20  | R1      |      |
| Fluoranthene               | ug/kg | ND                 | 1690        | 1650        | 1230  | 1030      | 73         | 62       | 10-128    | 18           | 20  |         |      |
| Fluorene                   | ug/kg | ND                 | 1690        | 1650        | 1250  | 990       | 74         | 60       | 12-127    | 23           | 20  | R1      |      |
| Indeno(1,2,3-cd)pyrene     | ug/kg | ND                 | 1690        | 1650        | 1240  | 1010      | 73         | 61       | 10-125    | 21           | 20  | R1      |      |
| N-Nitroso-di-n-propylamine | ug/kg | ND                 | 1690        | 1650        | 1240  | 1020      | 73         | 62       | 23-101    | 20           | 20  |         |      |
| Naphthalene                | ug/kg | ND                 | 1690        | 1650        | 1150  | 937       | 68         | 57       | 12-120    | 20           | 20  |         |      |
| Pentachlorophenol          | ug/kg | ND                 | 1690        | 1650        | <1490 | <1450     | 66         | 56       | 10-112    |              | 20  |         |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50264929

| Parameter                | Units | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2664889 |                      | 2664890               |      | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | RPD | Max<br>RPD | Qual |
|--------------------------|-------|--|----------------------|-----------------------|------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
|                          |       | 50264933001<br>Result                          | MS<br>Spike<br>Conc. | MSD<br>Spike<br>Conc. |      |              |               |             |              |                 |     |            |      |
| Phenanthrene             | ug/kg | ND   | 1690                 | 1650                  | 1230 | 1020         | 73            | 62          | 10-125       | 19              | 20  |            |      |
| Phenol                   | ug/kg | ND   | 1690                 | 1650                  | 1270 | 1030         | 75            | 63          | 22-105       | 21              | 20  | R1         |      |
| Pyrene                   | ug/kg | ND   | 1690                 | 1650                  | 1410 | 1180         | 83            | 72          | 10-146       | 17              | 20  |            |      |
| 2,4,6-Tribromophenol (S) | %     |  |                      |                       |      |              | 78            | 65          | 20-109       |                 |     |            |      |
| 2-Fluorobiphenyl (S)     | %     |  |                      |                       |      |              | 67            | 56          | 36-91        |                 |     |            |      |
| 2-Fluorophenol (S)       | %     |  |                      |                       |      |              | 72            | 60          | 24-95        |                 |     |            |      |
| Nitrobenzene-d5 (S)      | %     |  |                      |                       |      |              | 62            | 51          | 26-96        |                 |     |            |      |
| p-Terphenyl-d14 (S)      | %     |  |                      |                       |      |              | 84            | 71          | 27-117       |                 |     |            |      |
| Phenol-d5 (S)            | %     |  |                      |                       |      |              | 72            | 60          | 32-93        |                 |     |            |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

QC Batch: 578574 Analysis Method: EPA 8270  
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave Short Spike  
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50264929006

METHOD BLANK: 2667644 Matrix: Solid

Associated Lab Samples: 50264929006

| Parameter                    | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|------------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2,4-Trichlorobenzene       | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| 1,2-Diphenylhydrazine        | ug/kg | <1580        | 1580            | 1580 | 08/26/20 16:02 |            |
| 2,4,5-Trichlorophenol        | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| 2,4,6-Trichlorophenol        | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| 2,4-Dichlorophenol           | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| 2,4-Dimethylphenol           | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| 2,4-Dinitrophenol            | ug/kg | <1580        | 1580            | 1580 | 08/26/20 16:02 |            |
| 2,4-Dinitrotoluene           | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| 2,6-Dinitrotoluene           | ug/kg | <87.3        | 326             | 87.3 | 08/26/20 16:02 |            |
| 2-Chloronaphthalene          | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| 2-Chlorophenol               | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| 2-Methylnaphthalene          | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| 2-Methylphenol(o-Cresol)     | ug/kg | <987         | 987             | 987  | 08/26/20 16:02 |            |
| 2-Nitroaniline               | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| 2-Nitrophenol                | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| 3&4-Methylphenol(m&p Cresol) | ug/kg | <987         | 987             | 987  | 08/26/20 16:02 |            |
| 3-Nitroaniline               | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| 4,6-Dinitro-2-methylphenol   | ug/kg | <819         | 819             | 819  | 08/26/20 16:02 |            |
| 4-Bromophenylphenyl ether    | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| 4-Chloro-3-methylphenol      | ug/kg | <276         | 326             | 276  | 08/26/20 16:02 |            |
| 4-Chlorophenylphenyl ether   | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| 4-Nitroaniline               | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| 4-Nitrophenol                | ug/kg | <1580        | 1580            | 1580 | 08/26/20 16:02 |            |
| Acenaphthene                 | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| Acenaphthylene               | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| Anthracene                   | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| Benzo(a)anthracene           | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| Benzo(a)pyrene               | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| Benzo(b)fluoranthene         | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| Benzo(g,h,i)perylene         | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| Benzo(k)fluoranthene         | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| bis(2-Chloroethoxy)methane   | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| bis(2-Chloroethyl) ether     | ug/kg | <158         | 326             | 158  | 08/26/20 16:02 |            |
| bis(2-Chloroisopropyl) ether | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| bis(2-Ethylhexyl)phthalate   | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| Butylbenzylphthalate         | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| Carbazole                    | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| Chrysene                     | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| Di-n-butylphthalate          | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| Di-n-octylphthalate          | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

METHOD BLANK: 2667644 Matrix: Solid  
Associated Lab Samples: 50264929006

| Parameter                  | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|----------------------------|-------|--------------|-----------------|------|----------------|------------|
| Dibenz(a,h)anthracene      | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| Dibenzofuran               | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| Diethylphthalate           | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| Dimethylphthalate          | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| Fluoranthene               | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| Fluorene                   | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| Hexachloro-1,3-butadiene   | ug/kg | <94.7        | 326             | 94.7 | 08/26/20 16:02 |            |
| Hexachlorobenzene          | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| Hexachlorocyclopentadiene  | ug/kg | <987         | 987             | 987  | 08/26/20 16:02 |            |
| Hexachloroethane           | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| Indeno(1,2,3-cd)pyrene     | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| Isophorone                 | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| N-Nitroso-di-n-propylamine | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| N-Nitrosodimethylamine     | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| N-Nitrosodiphenylamine     | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| Naphthalene                | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| Nitrobenzene               | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| Pentachlorophenol          | ug/kg | <1450        | 1580            | 1450 | 08/26/20 16:02 |            |
| Phenanthrene               | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| Phenol                     | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| Pyrene                     | ug/kg | <326         | 326             | 326  | 08/26/20 16:02 |            |
| 2,4,6-Tribromophenol (S)   | %     | 84           | 20-109          |      | 08/26/20 16:02 |            |
| 2-Fluorobiphenyl (S)       | %     | 74           | 36-91           |      | 08/26/20 16:02 |            |
| 2-Fluorophenol (S)         | %     | 80           | 24-95           |      | 08/26/20 16:02 |            |
| Nitrobenzene-d5 (S)        | %     | 68           | 26-96           |      | 08/26/20 16:02 |            |
| p-Terphenyl-d14 (S)        | %     | 106          | 27-117          |      | 08/26/20 16:02 |            |
| Phenol-d5 (S)              | %     | 78           | 32-93           |      | 08/26/20 16:02 |            |

LABORATORY CONTROL SAMPLE: 2667645

| Parameter               | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2,4-Trichlorobenzene  | ug/kg | 1660        | 1070       | 65        | 52-89        |            |
| 2,4-Dinitrotoluene      | ug/kg | 1660        | 1470       | 89        | 41-116       |            |
| 2-Chlorophenol          | ug/kg | 1660        | 1130       | 68        | 48-97        |            |
| 2-Methylnaphthalene     | ug/kg | 1660        | 937        | 57        | 51-98        |            |
| 4-Chloro-3-methylphenol | ug/kg | 1660        | 1370       | 83        | 51-108       |            |
| 4-Nitrophenol           | ug/kg | 1660        | <1590      | 65        | 42-118       |            |
| Acenaphthene            | ug/kg | 1660        | 1170       | 71        | 58-94        |            |
| Acenaphthylene          | ug/kg | 1660        | 1180       | 71        | 56-94        |            |
| Anthracene              | ug/kg | 1660        | 1260       | 76        | 59-98        |            |
| Benzo(a)anthracene      | ug/kg | 1660        | 1310       | 79        | 60-103       |            |
| Benzo(a)pyrene          | ug/kg | 1660        | 1420       | 86        | 57-96        |            |
| Benzo(b)fluoranthene    | ug/kg | 1660        | 1470       | 89        | 57-104       |            |
| Benzo(g,h,i)perylene    | ug/kg | 1660        | 1320       | 80        | 56-103       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

LABORATORY CONTROL SAMPLE: 2667645

| Parameter                  | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Benzo(k)fluoranthene       | ug/kg | 1660        | 1410       | 85        | 55-104       |            |
| Chrysene                   | ug/kg | 1660        | 1350       | 82        | 59-105       |            |
| Dibenz(a,h)anthracene      | ug/kg | 1660        | 1370       | 83        | 54-103       |            |
| Fluoranthene               | ug/kg | 1660        | 1340       | 81        | 57-107       |            |
| Fluorene                   | ug/kg | 1660        | 1240       | 75        | 58-101       |            |
| Indeno(1,2,3-cd)pyrene     | ug/kg | 1660        | 1350       | 81        | 54-104       |            |
| N-Nitroso-di-n-propylamine | ug/kg | 1660        | 1170       | 71        | 43-94        |            |
| Naphthalene                | ug/kg | 1660        | 1050       | 64        | 51-90        |            |
| Pentachlorophenol          | ug/kg | 1660        | <1460      | 74        | 24-118       |            |
| Phenanthrene               | ug/kg | 1660        | 1260       | 76        | 60-96        |            |
| Phenol                     | ug/kg | 1660        | 1190       | 72        | 44-101       |            |
| Pyrene                     | ug/kg | 1660        | 1390       | 84        | 59-108       |            |
| 2,4,6-Tribromophenol (S)   | %     |             |            | 78        | 20-109       |            |
| 2-Fluorobiphenyl (S)       | %     |             |            | 65        | 36-91        |            |
| 2-Fluorophenol (S)         | %     |             |            | 70        | 24-95        |            |
| Nitrobenzene-d5 (S)        | %     |             |            | 61        | 26-96        |            |
| p-Terphenyl-d14 (S)        | %     |             |            | 99        | 27-117       |            |
| Phenol-d5 (S)              | %     |             |            | 70        | 32-93        |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2667646 2667647

| Parameter                  | Units | MS                 |             | MSD         |       | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------|-------------|-------------|-------|-----------|------------|----------|-----------|--------------|-----|---------|------|
|                            |       | 50265267001 Result | Spike Conc. | Spike Conc. | Conc. |           |            |          |           |              |     |         |      |
| 1,2,4-Trichlorobenzene     | ug/kg | ND                 | 1780        | 1800        | 1360  | 1410      | 76         | 78       | 30-96     | 3            | 20  |         |      |
| 2,4-Dinitrotoluene         | ug/kg | ND                 | 1780        | 1800        | 1690  | 1710      | 95         | 95       | 10-127    | 1            | 20  |         |      |
| 2-Chlorophenol             | ug/kg | ND                 | 1780        | 1800        | 1500  | 1570      | 84         | 88       | 17-107    | 5            | 20  |         |      |
| 2-Methylnaphthalene        | ug/kg | ND                 | 1780        | 1800        | 1170  | 1170      | 66         | 65       | 20-120    | 0            | 20  |         |      |
| 4-Chloro-3-methylphenol    | ug/kg | ND                 | 1780        | 1800        | 1800  | 1770      | 101        | 98       | 22-117    | 2            | 20  |         |      |
| 4-Nitrophenol              | ug/kg | ND                 | 1780        | 1800        | <1710 | <1720     | 80         | 77       | 10-131    |              | 20  |         |      |
| Acenaphthene               | ug/kg | ND                 | 1780        | 1800        | 1440  | 1450      | 81         | 81       | 19-115    | 1            | 20  |         |      |
| Acenaphthylene             | ug/kg | ND                 | 1780        | 1800        | 1430  | 1460      | 81         | 81       | 11-122    | 2            | 20  |         |      |
| Anthracene                 | ug/kg | ND                 | 1780        | 1800        | 1420  | 1480      | 80         | 82       | 10-133    | 4            | 20  |         |      |
| Benzo(a)anthracene         | ug/kg | ND                 | 1780        | 1800        | 1530  | 1600      | 86         | 89       | 10-137    | 5            | 20  |         |      |
| Benzo(a)pyrene             | ug/kg | ND                 | 1780        | 1800        | 1570  | 1650      | 88         | 92       | 10-132    | 5            | 20  |         |      |
| Benzo(b)fluoranthene       | ug/kg | ND                 | 1780        | 1800        | 1590  | 1670      | 89         | 93       | 10-134    | 5            | 20  |         |      |
| Benzo(g,h,i)perylene       | ug/kg | ND                 | 1780        | 1800        | 1440  | 1520      | 81         | 85       | 10-138    | 5            | 20  |         |      |
| Benzo(k)fluoranthene       | ug/kg | ND                 | 1780        | 1800        | 1660  | 1730      | 93         | 96       | 10-140    | 4            | 20  |         |      |
| Chrysene                   | ug/kg | ND                 | 1780        | 1800        | 1500  | 1600      | 84         | 89       | 10-150    | 7            | 20  |         |      |
| Dibenz(a,h)anthracene      | ug/kg | ND                 | 1780        | 1800        | 1490  | 1580      | 84         | 88       | 10-126    | 6            | 20  |         |      |
| Fluoranthene               | ug/kg | ND                 | 1780        | 1800        | 1550  | 1620      | 87         | 90       | 10-128    | 4            | 20  |         |      |
| Fluorene                   | ug/kg | ND                 | 1780        | 1800        | 1510  | 1520      | 85         | 84       | 12-127    | 1            | 20  |         |      |
| Indeno(1,2,3-cd)pyrene     | ug/kg | ND                 | 1780        | 1800        | 1440  | 1540      | 81         | 86       | 10-125    | 6            | 20  |         |      |
| N-Nitroso-di-n-propylamine | ug/kg | ND                 | 1780        | 1800        | 1540  | 1600      | 86         | 89       | 23-101    | 4            | 20  |         |      |
| Naphthalene                | ug/kg | ND                 | 1780        | 1800        | 1350  | 1360      | 76         | 76       | 12-120    | 1            | 20  |         |      |
| Pentachlorophenol          | ug/kg | ND                 | 1780        | 1800        | <1570 | <1580     | 72         | 80       | 10-112    |              | 20  |         |      |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50264929

| Parameter                | Units | 2667646               |                      | 2667647               |      | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | Max<br>RPD | Qual |
|--------------------------|-------|-----------------------|----------------------|-----------------------|------|--------------|---------------|-------------|--------------|-----------------|------------|------|
|                          |       | 50265267001<br>Result | MS<br>Spike<br>Conc. | MSD<br>Spike<br>Conc. |      |              |               |             |              |                 |            |      |
| Phenanthrene             | ug/kg | ND                    | 1780                 | 1800                  | 1480 | 1520         | 83            | 85          | 10-125       | 3               | 20         |      |
| Phenol                   | ug/kg | ND                    | 1780                 | 1800                  | 1570 | 1640         | 89            | 91          | 22-105       | 4               | 20         |      |
| Pyrene                   | ug/kg | ND                    | 1780                 | 1800                  | 1650 | 1760         | 93            | 98          | 10-146       | 6               | 20         |      |
| 2,4,6-Tribromophenol (S) | %     |                       |                      |                       |      |              | 89            | 91          | 20-109       |                 |            |      |
| 2-Fluorobiphenyl (S)     | %     |                       |                      |                       |      |              | 73            | 74          | 36-91        |                 |            |      |
| 2-Fluorophenol (S)       | %     |                       |                      |                       |      |              | 84            | 85          | 24-95        |                 |            |      |
| Nitrobenzene-d5 (S)      | %     |                       |                      |                       |      |              | 70            | 71          | 26-96        |                 |            |      |
| p-Terphenyl-d14 (S)      | %     |                       |                      |                       |      |              | 100           | 104         | 27-117       |                 |            |      |
| Phenol-d5 (S)            | %     |                       |                      |                       |      |              | 84            | 86          | 32-93        |                 |            |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

QC Batch: 577021 Analysis Method: EPA 8270 by SIM  
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH Low Volume  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50264929001, 50264929002, 50264929003

METHOD BLANK: 2660910 Matrix: Water  
Associated Lab Samples: 50264929001, 50264929002, 50264929003

| Parameter              | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|------------------------|-------|--------------|-----------------|------|----------------|------------|
| 2-Methylnaphthalene    | ug/L  | <5.0         | 5.0             | 5.0  | 08/17/20 15:06 |            |
| Acenaphthene           | ug/L  | <5.0         | 5.0             | 5.0  | 08/17/20 15:06 |            |
| Acenaphthylene         | ug/L  | <5.0         | 5.0             | 5.0  | 08/17/20 15:06 |            |
| Anthracene             | ug/L  | <5.0         | 5.0             | 5.0  | 08/17/20 15:06 |            |
| Benzo(a)anthracene     | ug/L  | <1.0         | 1.0             | 1.0  | 08/17/20 15:06 |            |
| Benzo(a)pyrene         | ug/L  | <0.20        | 0.20            | 0.20 | 08/17/20 15:06 |            |
| Benzo(b)fluoranthene   | ug/L  | <1.0         | 1.0             | 1.0  | 08/17/20 15:06 |            |
| Benzo(g,h,i)perylene   | ug/L  | <1.0         | 1.0             | 1.0  | 08/17/20 15:06 |            |
| Benzo(k)fluoranthene   | ug/L  | <1.0         | 1.0             | 1.0  | 08/17/20 15:06 |            |
| Chrysene               | ug/L  | <1.0         | 1.0             | 1.0  | 08/17/20 15:06 |            |
| Dibenz(a,h)anthracene  | ug/L  | <2.0         | 2.0             | 2.0  | 08/17/20 15:06 |            |
| Fluoranthene           | ug/L  | <1.0         | 1.0             | 1.0  | 08/17/20 15:06 |            |
| Fluorene               | ug/L  | <5.0         | 5.0             | 5.0  | 08/17/20 15:06 |            |
| Indeno(1,2,3-cd)pyrene | ug/L  | <2.0         | 2.0             | 2.0  | 08/17/20 15:06 |            |
| Naphthalene            | ug/L  | <5.0         | 5.0             | 5.0  | 08/17/20 15:06 |            |
| Phenanthrene           | ug/L  | <2.0         | 2.0             | 2.0  | 08/17/20 15:06 |            |
| Pyrene                 | ug/L  | <5.0         | 5.0             | 5.0  | 08/17/20 15:06 |            |
| 2-Fluorobiphenyl (S)   | %     | 68           | 32-107          |      | 08/17/20 15:06 |            |
| p-Terphenyl-d14 (S)    | %     | 76           | 29-143          |      | 08/17/20 15:06 |            |

LABORATORY CONTROL SAMPLE: 2660911

| Parameter              | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| 2-Methylnaphthalene    | ug/L  | 10          | 7.1        | 71        | 44-105       |            |
| Acenaphthene           | ug/L  | 10          | 7.6        | 76        | 53-102       |            |
| Acenaphthylene         | ug/L  | 10          | 7.5        | 75        | 56-105       |            |
| Anthracene             | ug/L  | 10          | 8.4        | 84        | 56-125       |            |
| Benzo(a)anthracene     | ug/L  | 10          | 8.4        | 84        | 55-134       |            |
| Benzo(a)pyrene         | ug/L  | 10          | 8.2        | 82        | 38-123       |            |
| Benzo(b)fluoranthene   | ug/L  | 10          | 8.1        | 81        | 46-139       |            |
| Benzo(g,h,i)perylene   | ug/L  | 10          | 7.6        | 76        | 27-113       |            |
| Benzo(k)fluoranthene   | ug/L  | 10          | 9.7        | 97        | 39-126       |            |
| Chrysene               | ug/L  | 10          | 7.3        | 73        | 65-120       |            |
| Dibenz(a,h)anthracene  | ug/L  | 10          | 8.2        | 82        | 23-119       |            |
| Fluoranthene           | ug/L  | 10          | 9.3        | 93        | 61-133       |            |
| Fluorene               | ug/L  | 10          | 7.9        | 79        | 53-126       |            |
| Indeno(1,2,3-cd)pyrene | ug/L  | 10          | 8.1        | 81        | 30-118       |            |
| Naphthalene            | ug/L  | 10          | 6.7        | 67        | 45-96        |            |
| Phenanthrene           | ug/L  | 10          | 8.3        | 83        | 59-131       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50264929

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LABORATORY CONTROL SAMPLE: 2660911

| Parameter            | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|-------------|------------|-----------|--------------|------------|
| Pyrene               | ug/L  | 10          | 8.2        | 82        | 60-142       |            |
| 2-Fluorobiphenyl (S) | %.    |             |            | 65        | 32-107       |            |
| p-Terphenyl-d14 (S)  | %.    |             |            | 74        | 29-143       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

QC Batch: 577020 Analysis Method: EPA 8270  
QC Batch Method: EPA 3510 Analysis Description: 8270 Water Scan LV  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50264929001, 50264929002, 50264929003

METHOD BLANK: 2660908 Matrix: Water  
Associated Lab Samples: 50264929001, 50264929002, 50264929003

| Parameter                    | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|------------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2,4-Trichlorobenzene       | ug/L  | <1.1         | 10.0            | 1.1  | 08/17/20 15:04 |            |
| 1,2-Diphenylhydrazine        | ug/L  | <3.7         | 10.0            | 3.7  | 08/17/20 15:04 |            |
| 2,4,5-Trichlorophenol        | ug/L  | <5.0         | 5.0             | 5.0  | 08/17/20 15:04 |            |
| 2,4,6-Trichlorophenol        | ug/L  | <4.0         | 5.0             | 4.0  | 08/17/20 15:04 |            |
| 2,4-Dichlorophenol           | ug/L  | <10.0        | 10.0            | 10.0 | 08/17/20 15:04 |            |
| 2,4-Dimethylphenol           | ug/L  | <5.0         | 5.0             | 5.0  | 08/17/20 15:04 |            |
| 2,4-Dinitrophenol            | ug/L  | <3.9         | 50.0            | 3.9  | 08/17/20 15:04 |            |
| 2,4-Dinitrotoluene           | ug/L  | <5.0         | 5.0             | 5.0  | 08/17/20 15:04 |            |
| 2,6-Dinitrotoluene           | ug/L  | <3.4         | 5.0             | 3.4  | 08/17/20 15:04 |            |
| 2-Chloronaphthalene          | ug/L  | <5.0         | 5.0             | 5.0  | 08/17/20 15:04 |            |
| 2-Chlorophenol               | ug/L  | <10.0        | 10.0            | 10.0 | 08/17/20 15:04 |            |
| 2-Methylphenol(o-Cresol)     | ug/L  | <10.0        | 10.0            | 10.0 | 08/17/20 15:04 |            |
| 2-Nitroaniline               | ug/L  | <5.8         | 10.0            | 5.8  | 08/17/20 15:04 |            |
| 2-Nitrophenol                | ug/L  | <5.0         | 5.0             | 5.0  | 08/17/20 15:04 |            |
| 3&4-Methylphenol(m&p Cresol) | ug/L  | <20.0        | 20.0            | 20.0 | 08/17/20 15:04 |            |
| 3-Nitroaniline               | ug/L  | <5.0         | 10.0            | 5.0  | 08/17/20 15:04 |            |
| 4,6-Dinitro-2-methylphenol   | ug/L  | <20.0        | 20.0            | 20.0 | 08/17/20 15:04 |            |
| 4-Bromophenylphenyl ether    | ug/L  | <3.6         | 10.0            | 3.6  | 08/17/20 15:04 |            |
| 4-Chloro-3-methylphenol      | ug/L  | <5.0         | 5.0             | 5.0  | 08/17/20 15:04 |            |
| 4-Chlorophenylphenyl ether   | ug/L  | <2.9         | 10.0            | 2.9  | 08/17/20 15:04 |            |
| 4-Nitroaniline               | ug/L  | <4.9         | 10.0            | 4.9  | 08/17/20 15:04 |            |
| 4-Nitrophenol                | ug/L  | <6.0         | 50.0            | 6.0  | 08/17/20 15:04 |            |
| bis(2-Chloroethoxy)methane   | ug/L  | <3.8         | 10.0            | 3.8  | 08/17/20 15:04 |            |
| bis(2-Chloroethyl) ether     | ug/L  | <2.2         | 5.0             | 2.2  | 08/17/20 15:04 |            |
| bis(2-Chloroisopropyl) ether | ug/L  | <3.9         | 10.0            | 3.9  | 08/17/20 15:04 |            |
| bis(2-Ethylhexyl)phthalate   | ug/L  | <5.0         | 5.0             | 5.0  | 08/17/20 15:04 |            |
| Butylbenzylphthalate         | ug/L  | <5.0         | 5.0             | 5.0  | 08/17/20 15:04 |            |
| Carbazole                    | ug/L  | <10.0        | 10.0            | 10.0 | 08/17/20 15:04 |            |
| Di-n-butylphthalate          | ug/L  | <5.0         | 5.0             | 5.0  | 08/17/20 15:04 |            |
| Di-n-octylphthalate          | ug/L  | <5.0         | 5.0             | 5.0  | 08/17/20 15:04 |            |
| Dibenzofuran                 | ug/L  | <4.0         | 5.0             | 4.0  | 08/17/20 15:04 |            |
| Diethylphthalate             | ug/L  | <5.0         | 5.0             | 5.0  | 08/17/20 15:04 |            |
| Dimethylphthalate            | ug/L  | <5.0         | 5.0             | 5.0  | 08/17/20 15:04 |            |
| Hexachloro-1,3-butadiene     | ug/L  | <3.0         | 5.0             | 3.0  | 08/17/20 15:04 |            |
| Hexachlorobenzene            | ug/L  | <2.7         | 5.0             | 2.7  | 08/17/20 15:04 |            |
| Hexachlorocyclopentadiene    | ug/L  | <25.0        | 25.0            | 25.0 | 08/17/20 15:04 |            |
| Hexachloroethane             | ug/L  | <5.0         | 5.0             | 5.0  | 08/17/20 15:04 |            |
| Isophorone                   | ug/L  | <5.0         | 5.0             | 5.0  | 08/17/20 15:04 |            |
| N-Nitroso-di-n-propylamine   | ug/L  | <5.0         | 5.0             | 5.0  | 08/17/20 15:04 |            |
| N-Nitrosodimethylamine       | ug/L  | <2.9         | 10.0            | 2.9  | 08/17/20 15:04 |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

METHOD BLANK: 2660908 Matrix: Water  
Associated Lab Samples: 50264929001, 50264929002, 50264929003

| Parameter                | Units | Blank Result | Reporting Limit | MDL | Analyzed       | Qualifiers |
|--------------------------|-------|--------------|-----------------|-----|----------------|------------|
| N-Nitrosodiphenylamine   | ug/L  | <5.0         | 5.0             | 5.0 | 08/17/20 15:04 |            |
| Nitrobenzene             | ug/L  | <3.0         | 5.0             | 3.0 | 08/17/20 15:04 |            |
| Pentachlorophenol        | ug/L  | <1.9         | 20.0            | 1.9 | 08/17/20 15:04 |            |
| Phenol                   | ug/L  | <5.0         | 5.0             | 5.0 | 08/17/20 15:04 |            |
| 2,4,6-Tribromophenol (S) | %     | 96           | 43-135          |     | 08/17/20 15:04 |            |
| 2-Fluorophenol (S)       | %     | 68           | 13-81           |     | 08/17/20 15:04 |            |
| Nitrobenzene-d5 (S)      | %     | 92           | 37-125          |     | 08/17/20 15:04 |            |
| Phenol-d5 (S)            | %     | 54           | 10-65           |     | 08/17/20 15:04 |            |

LABORATORY CONTROL SAMPLE: 2660909

| Parameter                  | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2,4-Trichlorobenzene     | ug/L  | 100         | 70.0       | 70        | 10-105       |            |
| 2,4-Dimethylphenol         | ug/L  | 100         | 102        | 102       | 24-129       |            |
| 2,4-Dinitrotoluene         | ug/L  | 100         | 103        | 103       | 46-144       |            |
| 2-Chlorophenol             | ug/L  | 100         | 81.1       | 81        | 24-110       |            |
| 4-Chloro-3-methylphenol    | ug/L  | 100         | 113        | 113       | 33-137       |            |
| 4-Nitrophenol              | ug/L  | 100         | 94.3       | 94        | 10-88        | L1         |
| bis(2-Ethylhexyl)phthalate | ug/L  | 100         | 134        | 134       | 75-147       |            |
| Dibenzofuran               | ug/L  | 100         | 94.4       | 94        | 34-125       |            |
| N-Nitroso-di-n-propylamine | ug/L  | 100         | 86.3       | 86        | 41-127       |            |
| Pentachlorophenol          | ug/L  | 100         | 111        | 111       | 30-147       |            |
| Phenol                     | ug/L  | 100         | 57.7       | 58        | 10-71        |            |
| 2,4,6-Tribromophenol (S)   | %     |             |            | 90        | 43-135       |            |
| 2-Fluorophenol (S)         | %     |             |            | 64        | 13-81        |            |
| Nitrobenzene-d5 (S)        | %     |             |            | 83        | 37-125       |            |
| Phenol-d5 (S)              | %     |             |            | 53        | 10-65        |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

|                           |   |
|---------------------------|---|
| QC Batch: 577514          | Analysis Method: SM 2540G                           |
| QC Batch Method: SM 2540G | Analysis Description: Dry Weight/Percent Moisture   |
|                           | Laboratory: Pace Analytical Services - Indianapolis |

Associated Lab Samples: 50264929004, 50264929005

SAMPLE DUPLICATE: 2662911

| Parameter        | Units | 50264929004<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 11.8                  | 11.6          | 2   | 5          | N2         |

SAMPLE DUPLICATE: 2662912

| Parameter        | Units | 50265005007<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 16.4                  | 14.2          | 14  | 5          | N2,R1      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50264929

QC Batch: 578336

Analysis Method: SM 2540G

QC Batch Method: SM 2540G

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50264929006

SAMPLE DUPLICATE: 2666655

| Parameter        | Units | 50264929006<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 16.2                  | 16.4          | 1   | 5          | N2         |

SAMPLE DUPLICATE: 2666656

| Parameter        | Units | 50265527009<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 12.6                  | 12.3          | 2   | 5          | N2         |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50264929

|                           |   |
|---------------------------|---|
| QC Batch: 577046          | Analysis Method: EPA 9012                           |
| QC Batch Method: EPA 9012 | Analysis Description: 9012 Cyanide, Total           |
|                           | Laboratory: Pace Analytical Services - Indianapolis |

Associated Lab Samples: 50264929001, 50264929002, 50264929003

METHOD BLANK: 2660996 Matrix: Water

Associated Lab Samples: 50264929001, 50264929002, 50264929003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|-----|----------------|------------|
| Cyanide   | ug/L  | <5.0         | 5.0             | 5.0 | 08/18/20 10:12 |            |

LABORATORY CONTROL SAMPLE: 2660997

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Cyanide   | ug/L  | 100         | 99.0       | 99        | 90-110       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2660998 2660999

| Parameter | Units | 2660998            |                | 2660999         |           | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |            |
|-----------|-------|--------------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|------|------------|
|           |       | 50264832001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result |          |           |              |        |         |      | MSD Result |
| Cyanide   | ug/L  | ND                 | 100            | 100             | 94.2      | 99.0     | 94        | 99           | 90-110 | 5       | 20   |            |

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## QUALIFIERS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50264929

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

|    |   |
|----|---|
| 1d | RPD is outside control limits due to sample non-homogeneity KJE 9/3/20  |
| D3 | Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.  |
| D6 | The precision between the sample and sample duplicate exceeded laboratory control limits.   |
| E  | Analyte concentration exceeded the calibration range. The reported result is estimated.   |
| ED | Due to the extract's physical characteristics, the analysis was performed at dilution.  |
| H3 | Sample was received or analysis requested beyond the recognized method holding time.  |
| L1 | Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.   |
| M0 | Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.   |
| M3 | Matrix spike recovery was outside laboratory control limits due to matrix interferences.  |
| N2 | The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request. |
| P6 | Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.   |
| R1 | RPD value was outside control limits.   |
| S0 | Surrogate recovery outside laboratory control limits.   |
| S4 | Surrogate recovery not evaluated against control limits due to sample dilution.   |

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

| Lab ID      | Sample ID        | QC Batch Method         | QC Batch | Analytical Method | Analytical Batch |
|-------------|------------------|-------------------------|----------|-------------------|------------------|
| 50264929002 | MW-132           | EPA 8015 Alcohol-Glycol | 577485   |                   |                  |
| 50264929003 | Dup              | EPA 8015 Alcohol-Glycol | 577485   |                   |                  |
| 50264929004 | MW-132 (5.5-6.5) | EPA 3546                | 577464   | EPA 8082          | 577596           |
| 50264929002 | MW-132           | EPA 3510                | 578700   | EPA 8082          | 578761           |
| 50264929003 | Dup              | EPA 3510                | 578700   | EPA 8082          | 578761           |
| 50264929004 | MW-132 (5.5-6.5) | EPA 3050                | 577040   | EPA 6010          | 577924           |
| 50264929005 | MW-133 (3-4)     | EPA 3050                | 577040   | EPA 6010          | 577924           |
| 50264929006 | MW-133 (10-11)   | EPA 3050                | 578633   | EPA 6010          | 579808           |
| 50264929007 | MW-133 Composite | EPA 3010                | 579029   | EPA 6010          | 579317           |
| 50264929001 | MW-133           | EPA 3010                | 577044   | EPA 6010          | 577706           |
| 50264929002 | MW-132           | EPA 3010                | 577044   | EPA 6010          | 577706           |
| 50264929003 | Dup              | EPA 3010                | 577044   | EPA 6010          | 577706           |
| 50264929004 | MW-132 (5.5-6.5) | EPA 3050B               | 576950   | EPA 6020          | 577157           |
| 50264929005 | MW-133 (3-4)     | EPA 3050B               | 576950   | EPA 6020          | 577157           |
| 50264929006 | MW-133 (10-11)   | EPA 3050B               | 578417   | EPA 6020          | 578803           |
| 50264929001 | MW-133           | EPA 200.2               | 577126   | EPA 6020          | 577386           |
| 50264929002 | MW-132           | EPA 200.2               | 577126   | EPA 6020          | 577386           |
| 50264929003 | Dup              | EPA 200.2               | 577126   | EPA 6020          | 577386           |
| 50264929007 | MW-133 Composite | EPA 7470                | 579037   | EPA 7470          | 579293           |
| 50264929001 | MW-133           | EPA 7470                | 577205   | EPA 7470          | 577258           |
| 50264929002 | MW-132           | EPA 7470                | 577205   | EPA 7470          | 577258           |
| 50264929003 | Dup              | EPA 7470                | 577205   | EPA 7470          | 577258           |
| 50264929004 | MW-132 (5.5-6.5) | EPA 7471                | 577532   | EPA 7471          | 577730           |
| 50264929005 | MW-133 (3-4)     | EPA 7471                | 577532   | EPA 7471          | 577730           |
| 50264929006 | MW-133 (10-11)   | EPA 7471                | 580478   | EPA 7471          | 581099           |
| 50264929004 | MW-132 (5.5-6.5) | EPA 3546                | 577938   | EPA 8270          | 578263           |
| 50264929005 | MW-133 (3-4)     | EPA 3546                | 577938   | EPA 8270          | 578263           |
| 50264929006 | MW-133 (10-11)   | EPA 3546                | 578574   | EPA 8270          | 578657           |
| 50264929001 | MW-133           | EPA 3510                | 577021   | EPA 8270 by SIM   | 577149           |
| 50264929002 | MW-132           | EPA 3510                | 577021   | EPA 8270 by SIM   | 577149           |
| 50264929003 | Dup              | EPA 3510                | 577021   | EPA 8270 by SIM   | 577149           |
| 50264929001 | MW-133           | EPA 3510                | 577020   | EPA 8270          | 577148           |
| 50264929002 | MW-132           | EPA 3510                | 577020   | EPA 8270          | 577148           |
| 50264929003 | Dup              | EPA 3510                | 577020   | EPA 8270          | 577148           |
| 50264929001 | MW-133           | EPA 8260C SIM/5030C     | 174482   |                   |                  |
| 50264929002 | MW-132           | EPA 8260C SIM/5030C     | 174482   |                   |                  |
| 50264929003 | Dup              | EPA 8260C SIM/5030C     | 174482   |                   |                  |
| 50264929001 | MW-133           | EPA 5030B/8260          | 578050   |                   |                  |
| 50264929002 | MW-132           | EPA 5030B/8260          | 578050   |                   |                  |

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50264929

| Lab ID      | Sample ID        | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|------------------|-----------------|----------|-------------------|------------------|
| 50264929003 | Dup              | EPA 5030B/8260  | 578050   |                   |                  |
| 50264929004 | MW-132 (5.5-6.5) | EPA 8260        | 578070   |                   |                  |
| 50264929005 | MW-133 (3-4)     | EPA 8260        | 578070   |                   |                  |
| 50264929006 | MW-133 (10-11)   | EPA 8260        | 578538   |                   |                  |
| 50264929004 | MW-132 (5.5-6.5) | SM 2540G        | 577514   |                   |                  |
| 50264929005 | MW-133 (3-4)     | SM 2540G        | 577514   |                   |                  |
| 50264929006 | MW-133 (10-11)   | SM 2540G        | 578336   |                   |                  |
| 50264929001 | MW-133           | EPA 9012        | 577046   | EPA 9012          | 577089           |
| 50264929002 | MW-132           | EPA 9012        | 577046   | EPA 9012          | 577089           |
| 50264929003 | Dup              | EPA 9012        | 577046   | EPA 9012          | 577089           |

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY / I / P

WIO#: 50264929

The Chain-of-Custody is a LEGAL DOCUMENT



**Section A**  
 Required Client Information:  
 Company: ATC Group Services  
 Address: 46555 Humboldt dr.  
Ste. 100 Novi, MI 48377  
 Phone: ryan.scott@atcgs.com  
 Fax: n/a  
 Requested Due Date/TAT: 7 DAY

**Section B**  
 Required Project Information:  
 Report To: Ryan. scott@atcgs.com  
 Copy To:  
 Purchase Order No.:  
 Project Name: Detroit Axel  
 Project Number: NPDAX19001

**Section C**  
 Invoice Information:  
 Attention:  
 Company Name:  
 Address:  
 Pace Quote Reference:  
 Pace Project Manager:  
 Pace Profile #:  
 Site Location STATE: MI

**REGULATORY AGENCY**  
 NPDES GROUND WATER RCRA DRINKING WATER  
 UST OTHER

| ITEM # | Valid Matrix Codes<br>MATRIX CODE<br>DW DRINKING WATER<br>WT WATER<br>WW WASTE WATER<br>P PRODUCT<br>SL SOIL/SOLID<br>OL OIL<br>WP WIPE<br>AR AIR<br>OT OTHER<br>TS TISSUE | SAMPLE CODE<br>(see valid codes to left) | COLLECTED          |                 | SAMPLE TYPE (G=GRAB C=COMP) | SAMPLE TEMP AT COLLECTION °F | # OF CONTAINERS | Requested Analysis Filtered (Y/N) |  |                            |                |                 |   |                     |                  |                          |                 | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |                     |                           |                    |                        |                 |   |  |      |
|--------|--|--|--------------------|-----------------|-----------------------------|------------------------------|-----------------|-----------------------------------|--|----------------------------|----------------|-----------------|---|---------------------|------------------|--------------------------|-----------------|-------------------------|----------------------------|---------------------|---------------------------|--------------------|------------------------|-----------------|---|--|------|
|        |  |  | COMPOSITE START    | DATE            |                             |                              |                 | TIME                              | COMPOSITE END/GRAB                     | DATE                       | TIME           | Y               | N   | Y                   | Y                | Y                        | N               |                         |                            | N                   | Y                         | N                  | N                      | Y               | N |  |      |
| 1      | MW-133   | WT G                                     | 8/13/20            | 1314            | G                           | 70°F                         | 10              | Unpreserved                       | H <sub>2</sub> SO <sub>4</sub>         | HNO <sub>3</sub>           | HCl            | NaOH            | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>       | Methanol            | Other            | Analysis Test            | VOCs            | SVOCs                   | PCBs                       | Alcohols            | Metals (Total)            | Cyanide            | 1,4 Dioxane            | PNAS            |   |  | L9   |
| 2      | MW-132   | WT G                                     | 8/13/20            | 1421            | G                           | 70°F                         | 10              | Unpreserved                       | H <sub>2</sub> SO <sub>4</sub>         | HNO <sub>3</sub>           | HCl            | NaOH            | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>       | Methanol            | Other            | Analysis Test            | VOCs            | SVOCs                   | PCBs                       | Alcohols            | Metals (Total)            | Cyanide            | 1,4 Dioxane            | PNAS            |   |  | L8   |
| 3      | DUP  | WT G                                     | 8/13/20            | 1000            | G                           | 70°F                         | 10              | Unpreserved                       | H <sub>2</sub> SO <sub>4</sub>         | HNO <sub>3</sub>           | HCl            | NaOH            | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>       | Methanol            | Other            | Analysis Test            | VOCs            | SVOCs                   | PCBs                       | Alcohols            | Metals (Total)            | Cyanide            | 1,4 Dioxane            | PNAS            |   |  | L8   |
| 4      | <del>MW-133</del>  | <del>WT G</del>                          | <del>8/13/20</del> | <del>1000</del> | <del>G</del>                | <del>70°F</del>              | <del>10</del>   | <del>Unpreserved</del>            | <del>H<sub>2</sub>SO<sub>4</sub></del> | <del>HNO<sub>3</sub></del> | <del>HCl</del> | <del>NaOH</del> | <del>Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub></del> | <del>Methanol</del> | <del>Other</del> | <del>Analysis Test</del> | <del>VOCs</del> | <del>SVOCs</del>        | <del>PCBs</del>            | <del>Alcohols</del> | <del>Metals (Total)</del> | <del>Cyanide</del> | <del>1,4 Dioxane</del> | <del>PNAS</del> |   |  |      |
| 5      | MW-132 (5.5-6.5)   | SL G                                     | 8/12/20            | 1506            | G                           | 70°F                         | 3               | Unpreserved                       | H <sub>2</sub> SO <sub>4</sub>         | HNO <sub>3</sub>           | HCl            | NaOH            | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>       | Methanol            | Other            | Analysis Test            | VOCs            | SVOCs                   | PCBs                       | Alcohols            | Metals (Total)            | Cyanide            | 1,4 Dioxane            | PNAS            |   |  | L10  |
| 6      | MW-133 (3-4)   | SL G                                     | 8/12/20            | 1103            | G                           | 70°F                         | 3               | Unpreserved                       | H <sub>2</sub> SO <sub>4</sub>         | HNO <sub>3</sub>           | HCl            | NaOH            | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>       | Methanol            | Other            | Analysis Test            | VOCs            | SVOCs                   | PCBs                       | Alcohols            | Metals (Total)            | Cyanide            | 1,4 Dioxane            | PNAS            |   |  | L11  |
| 7      | MW-133 (10-11)   | SL G                                     | 8/12/20            | 1110            | G                           | 70°F                         | 3               | Unpreserved                       | H <sub>2</sub> SO <sub>4</sub>         | HNO <sub>3</sub>           | HCl            | NaOH            | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>       | Methanol            | Other            | Analysis Test            | VOCs            | SVOCs                   | PCBs                       | Alcohols            | Metals (Total)            | Cyanide            | 1,4 Dioxane            | PNAS            |   |  | Hold |

**ADDITIONAL COMMENTS**  
 HOLD  
 MW-133 (10-11)  
 Spencer Overbeck / ATC  
 8/13/20 1600  
 D. Nagdin  
 8/13/20 1350  
 14

**RELINQUISHED BY / AFFILIATION**  
 DATE TIME

**ACCEPTED BY / AFFILIATION**  
 DATE TIME

**SAMPLE CONDITIONS**

Temp in °C \_\_\_\_\_  
 Received on \_\_\_\_\_  
 Sealed Cooler (Y/N) \_\_\_\_\_  
 Cooled (Y/N) \_\_\_\_\_  
 Samples Intact (Y/N) \_\_\_\_\_

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: Spencer Overbeck  
 SIGNATURE of SAMPLER: Spencer Overbeck  
 DATE Signed (MM/DD/YYYY): 08/13/20



# Sample Conditions Upon Receipt Form (SCUR)

|  |  |  |  |  |                  |           |
|--|--|--|--|--|------------------|-----------|
| Date/Time: <u>8/14/20</u>  |  | Evaluated by: <u>[Signature]</u>   |  | <b>WO# : 50264929</b><br>PM: BJH      Due Date: 08/25/20<br>CLIENT: GR-ATC                         |                  |           |
| Client: <u>ATC GROUP</u>   |  |  |  |  |                  |           |
| Project Manager: <u>BJH</u>  |  | Profile ID: <u>9157</u>  |  |  |                  |           |
| Rush TAT Requested: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>  |  | Due Date:  |  | Non Conformance Form Required: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> |                  |           |
| Lab Notified of Rush or Short Holds: YES <input type="checkbox"/> NO <input type="checkbox"/>  |  | Samples Received Via: <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> Client <input type="checkbox"/> Pace Courier    Other: _____ |  |  |                  | Comments: |
| Custody Seals Present and Intact:  |  | YES  | NO                                     | <input checked="" type="checkbox"/> N/A  |                  |           |
| Received Sample Information Form(s): Drinking Waters Only  |  | YES  | NO                                     | <input checked="" type="checkbox"/> N/A  |                  |           |
| USDA Regulated Soils: (AL, AR, CA, FL, GA, ID, LA, MS, NM, NY, NC, OK, OR, SC, TN, TX, WA or Puerto Rico)  |  | YES  | NO                                     | <input checked="" type="checkbox"/> N/A  |                  |           |
| Short Holds Present (< 72 Hours):  |  | YES  | <input checked="" type="checkbox"/> NO |  |                  |           |
| Samples Received in Hold:  |  | <input checked="" type="checkbox"/> YES  | NO                                     |  |                  |           |
| Custody Signatures Present:  |  | <input checked="" type="checkbox"/> YES  | NO                                     |  |                  |           |
| Collector Signature Present:   |  | <input checked="" type="checkbox"/> YES  | NO                                     |  |                  |           |
| Packing Material Used:   |  | <input checked="" type="checkbox"/> YES  | NO                                     |  |                  |           |
| Samples Collected Today and On Ice:  |  | YES  | NO                                     | <input checked="" type="checkbox"/> N/A  |                  |           |
| IR Gun #: <u>280</u> <u>281</u>  |  | Digital Thermometer #: <u>282</u> <u>283</u>   |  |  |                  |           |
| Ice Type: WET Bagged / WET Loose <input checked="" type="checkbox"/> BLUE    NONE  |  | 1. Cooler Temp Upon Receipt: <u>4.0 / 2.5</u> °C   |  |  |                  |           |
| Ice Location: TOP    BOTTOM    MIDDLE <input checked="" type="checkbox"/> DISPERSED  |  | Temp should be 0-6°C (Initial/Corrected)   |  |  |                  |           |
| Temp Blank Received:   |  | <input checked="" type="checkbox"/> YES  | NO                                     |  |                  |           |
| Containers Intact:   |  | <input checked="" type="checkbox"/> YES  | NO                                     |  |                  |           |
| Correct Containers:  |  | <input checked="" type="checkbox"/> YES  | NO                                     |  |                  |           |
| Sufficient Volume:   |  | <input checked="" type="checkbox"/> YES  | NO                                     |  |                  |           |
| Sample pH Acceptable: All containers needing preservation are found to be in compliance with EPA recommendation. Exceptions are VOA, coliform, LLHg, O&G, or any container with a septum cap or preserved with HCl |  | <input checked="" type="checkbox"/> YES  | NO                                     | N/A  | <u>110609011</u> |           |
| Residual Chlorine Absent: (SVOC/Pest 625, PCB 608, Total/Amenable/Available Cyanide)   |  | <input checked="" type="checkbox"/> YES  | NO                                     | N/A  | <u>110114876</u> |           |
| VOA Headspace Acceptable (<6mm):   |  | <input checked="" type="checkbox"/> YES  | NO                                     | N/A  |                  |           |
| Trip Blank Received: HCl    MeOH    TSP    OTHER   |  | YES  | <input checked="" type="checkbox"/> NO |  |                  |           |
| Comments:  |  | 2. Cooler Temp Upon Receipt: _____ °C  |  |  |                  |           |
|  |  | 3. Cooler Temp Upon Receipt: _____ °C  |  |  |                  |           |
|  |  | 4. Cooler Temp Upon Receipt: _____ °C  |  |  |                  |           |

April 20, 2020

Joshua Schuyler  
ATC Group Services - Novi  
46555 Humboldt Drive  
Suite 100  
Novi, MI 48377

RE: Project: 8 Mile Ferndale  
Pace Project No.: 50254306

Dear Joshua Schuyler:

Enclosed are the analytical results for sample(s) received by the laboratory on April 10, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Brian Hall  
brian.hall@pacelabs.com  
(616)975-4500  
Project Manager

Enclosures

cc: AP c/o Abigail Jardine, ATC Group Services  
Michael Hauswirth, ATC Group Services  
April Hehir



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

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### **Pace Analytical Services Indianapolis**

7726 Moller Road, Indianapolis, IN 46268  
Illinois Accreditation #: 200074  
Indiana Drinking Water Laboratory #: C-49-06  
Kansas/TNI Certification #: E-10177  
Kentucky UST Agency Interest #: 80226  
Kentucky WW Laboratory ID #: 98019  
Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065  
Oklahoma Laboratory #: 9204  
Texas Certification #: T104704355  
West Virginia Certification #: 330  
Wisconsin Laboratory #: 999788130  
USDA Soil Permit #: P330-19-00257

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

| Lab ID      | Sample ID  | Matrix | Date Collected | Date Received  |
|-------------|------------|--------|----------------|----------------|
| 50254306001 | MW-101     | Water  | 04/08/20 13:34 | 04/10/20 08:25 |
| 50254306002 | MW-102     | Water  | 04/08/20 14:29 | 04/10/20 08:25 |
| 50254306003 | MW-103     | Water  | 04/08/20 15:08 | 04/10/20 08:25 |
| 50254306004 | MW-104     | Water  | 04/08/20 15:48 | 04/10/20 08:25 |
| 50254306005 | MW-105     | Water  | 04/08/20 16:23 | 04/10/20 08:25 |
| 50254306006 | MW-106     | Water  | 04/08/20 17:32 | 04/10/20 08:25 |
| 50254306007 | MW-107     | Water  | 04/08/20 18:08 | 04/10/20 08:25 |
| 50254306008 | MW-108     | Water  | 04/08/20 18:40 | 04/10/20 08:25 |
| 50254306009 | MW-109     | Water  | 04/08/20 19:14 | 04/10/20 08:25 |
| 50254306010 | DUP-1      | Water  | 04/08/20 00:00 | 04/10/20 08:25 |
| 50254306011 | MW-110     | Water  | 04/09/20 09:07 | 04/10/20 08:25 |
| 50254306012 | MW-111     | Water  | 04/09/20 09:38 | 04/10/20 08:25 |
| 50254306013 | MW-112     | Water  | 04/09/20 10:09 | 04/10/20 08:25 |
| 50254306014 | MW-113     | Water  | 04/09/20 11:01 | 04/10/20 08:25 |
| 50254306015 | MW-114     | Water  | 04/09/20 11:36 | 04/10/20 08:25 |
| 50254306016 | MW-115     | Water  | 04/09/20 12:39 | 04/10/20 08:25 |
| 50254306017 | DUP-2      | Water  | 04/09/20 00:00 | 04/10/20 08:25 |
| 50254306018 | Trip Blank | Water  | 04/09/20 00:00 | 04/10/20 08:25 |

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

| Lab ID      | Sample ID | Method                  | Analysts | Analytes Reported |
|-------------|-----------|-------------------------|----------|-------------------|
| 50254306001 | MW-101    | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |           | EPA 6020                | DMT      | 7                 |
|             |           | EPA 7470                | ILP      | 1                 |
|             |           | EPA 8270 by SIM 40E     | GRM      | 19                |
|             |           | EPA 5030B/8260          | JPV      | 75                |
| 50254306002 | MW-102    | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |           | EPA 6020                | DMT      | 7                 |
|             |           | EPA 7470                | ILP      | 1                 |
|             |           | EPA 8270 by SIM 40E     | GRM      | 19                |
|             |           | EPA 5030B/8260          | JPV      | 75                |
| 50254306003 | MW-103    | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |           | EPA 6020                | DMT      | 7                 |
|             |           | EPA 7470                | ILP      | 1                 |
|             |           | EPA 8270 by SIM 40E     | GRM      | 19                |
|             |           | EPA 5030B/8260          | JPV      | 75                |
| 50254306004 | MW-104    | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |           | EPA 6020                | DMT      | 7                 |
|             |           | EPA 7470                | ILP      | 1                 |
|             |           | EPA 8270 by SIM 40E     | GRM      | 19                |
|             |           | EPA 5030B/8260          | JPV      | 75                |
| 50254306005 | MW-105    | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |           | EPA 6020                | DMT      | 7                 |
|             |           | EPA 7470                | ILP      | 1                 |
|             |           | EPA 8270 by SIM 40E     | GRM      | 19                |
|             |           | EPA 5030B/8260          | JPV      | 75                |
| 50254306006 | MW-106    | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |           | EPA 6020                | DMT      | 7                 |
|             |           | EPA 7470                | ILP      | 1                 |
|             |           | EPA 8270 by SIM 40E     | GRM      | 19                |
|             |           | EPA 5030B/8260          | JPV      | 75                |
| 50254306007 | MW-107    | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |           | EPA 6020                | DMT      | 7                 |
|             |           | EPA 7470                | ILP      | 1                 |
|             |           | EPA 8270 by SIM 40E     | GRM      | 19                |
|             |           | EPA 5030B/8260          | JPV      | 75                |
| 50254306008 | MW-108    | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |           | EPA 6020                | DMT      | 7                 |

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### SAMPLE ANALYTE COUNT

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

| Lab ID      | Sample ID | Method                  | Analysts | Analytes Reported |
|-------------|-----------|-------------------------|----------|-------------------|
| 50254306009 | MW-109    | EPA 7470                | ILP      | 1                 |
|             |           | EPA 8270 by SIM 40E     | GRM      | 19                |
|             |           | EPA 5030B/8260          | JPV      | 75                |
|             |           | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |           | EPA 6020                | DMT      | 7                 |
|             |           | EPA 7470                | ILP      | 1                 |
| 50254306010 | DUP-1     | EPA 8270 by SIM 40E     | GRM      | 19                |
|             |           | EPA 5030B/8260          | JPV      | 75                |
|             |           | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |           | EPA 6020                | DMT      | 7                 |
|             |           | EPA 7470                | ILP      | 1                 |
|             |           | EPA 8270 by SIM 40E     | GRM      | 19                |
| 50254306011 | MW-110    | EPA 5030B/8260          | JPV      | 75                |
|             |           | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |           | EPA 6020                | DMT      | 7                 |
|             |           | EPA 7470                | ILP      | 1                 |
|             |           | EPA 8270 by SIM 40E     | GRM      | 19                |
|             |           | EPA 5030B/8260          | JPV      | 75                |
| 50254306012 | MW-111    | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |           | EPA 6020                | DMT      | 7                 |
|             |           | EPA 7470                | ILP      | 1                 |
|             |           | EPA 8270 by SIM 40E     | GRM      | 19                |
|             |           | EPA 5030B/8260          | JPV      | 75                |
|             |           | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
| 50254306013 | MW-112    | EPA 6020                | DMT      | 7                 |
|             |           | EPA 7470                | ILP      | 1                 |
|             |           | EPA 8270 by SIM 40E     | GRM      | 19                |
|             |           | EPA 5030B/8260          | JPV      | 75                |
|             |           | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |           | EPA 6020                | DMT      | 7                 |
| 50254306014 | MW-113    | EPA 7470                | ILP      | 1                 |
|             |           | EPA 8270 by SIM 40E     | GRM      | 19                |
|             |           | EPA 5030B/8260          | JPV      | 75                |
|             |           | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |           | EPA 6020                | DMT      | 7                 |
|             |           | EPA 7470                | ILP      | 1                 |
| 50254306015 | MW-114    | EPA 8270 by SIM 40E     | GRM      | 19                |
|             |           | EPA 5030B/8260          | JPV      | 75                |
|             |           | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |           | EPA 6020                | DMT      | 7                 |
|             |           | EPA 7470                | ILP      | 1                 |
|             |           | EPA 8270 by SIM 40E     | GRM      | 19                |

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### SAMPLE ANALYTE COUNT

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

| Lab ID      | Sample ID  | Method                  | Analysts | Analytes Reported |
|-------------|------------|-------------------------|----------|-------------------|
| 50254306016 | MW-115     | EPA 5030B/8260          | JPV      | 75                |
|             |            | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |            | EPA 6020                | DMT      | 7                 |
|             |            | EPA 7470                | ILP      | 1                 |
|             |            | EPA 8270 by SIM 40E     | GRM      | 19                |
| 50254306017 | DUP-2      | EPA 5030B/8260          | JPV      | 75                |
|             |            | EPA 8015 Alcohol-Glycol | CPH      | 3                 |
|             |            | EPA 6020                | DMT      | 7                 |
|             |            | EPA 7470                | ILP      | 1                 |
|             |            | EPA 8270 by SIM 40E     | GRM      | 19                |
| 50254306018 | Trip Blank | EPA 5030B/8260          | JPV      | 75                |
|             |            | EPA 5030B/8260          | JPV      | 75                |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-101**      **Lab ID: 50254306001**      Collected: 04/08/20 13:34      Received: 04/10/20 08:25      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in water</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol<br>Pace Analytical Services - Indianapolis                             |         |       |        |       |    |                |                |           |      |
| n-Butanol   | <800    | ug/L  | 5000   | 800   | 1  |                | 04/13/20 19:20 | 71-36-3   |      |
| Ethanol   | <1000   | ug/L  | 5000   | 1000  | 1  |                | 04/13/20 19:20 | 64-17-5   |      |
| Methanol  | <400    | ug/L  | 5000   | 400   | 1  |                | 04/13/20 19:20 | 67-56-1   |      |
| <b>6020 MET ICPMS</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020    Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis           |         |       |        |       |    |                |                |           |      |
| Arsenic   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 18:35 | 7440-38-2 |      |
| Barium  | <100    | ug/L  | 100    | 100   | 1  | 04/13/20 08:44 | 04/15/20 18:35 | 7440-39-3 |      |
| Cadmium   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 08:44 | 04/15/20 18:35 | 7440-43-9 |      |
| Chromium  | <10.0   | ug/L  | 10.0   | 10.0  | 1  | 04/13/20 08:44 | 04/15/20 18:35 | 7440-47-3 |      |
| Lead  | <3.0    | ug/L  | 3.0    | 3.0   | 1  | 04/13/20 08:44 | 04/15/20 18:35 | 7439-92-1 |      |
| Selenium  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 18:35 | 7782-49-2 |      |
| Silver  | <0.20   | ug/L  | 0.25   | 0.20  | 1  | 04/13/20 08:44 | 04/15/20 18:35 | 7440-22-4 |      |
| <b>7470 Mercury</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7470    Preparation Method: EPA 7470<br>Pace Analytical Services - Indianapolis            |         |       |        |       |    |                |                |           |      |
| Mercury   | <0.079  | ug/L  | 0.20   | 0.079 | 1  | 04/16/20 10:33 | 04/17/20 10:49 | 7439-97-6 |      |
| <b>8270 PAH by 3511</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM 40E    Preparation Method: EPA 3511<br>Pace Analytical Services - Indianapolis |         |       |        |       |    |                |                |           |      |
| Acenaphthene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:08 | 83-32-9   |      |
| Acenaphthylene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:08 | 208-96-8  |      |
| Anthracene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:08 | 120-12-7  |      |
| Benzo(a)anthracene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 21:08 | 56-55-3   |      |
| Benzo(a)pyrene  | <0.20   | ug/L  | 0.20   | 0.20  | 1  | 04/13/20 13:00 | 04/13/20 21:08 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 21:08 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 21:08 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 21:08 | 207-08-9  |      |
| Chrysene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 21:08 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/13/20 13:00 | 04/13/20 21:08 | 53-70-3   |      |
| Fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 21:08 | 206-44-0  |      |
| Fluorene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:08 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/13/20 13:00 | 04/13/20 21:08 | 193-39-5  |      |
| 2-Methylnaphthalene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:08 | 91-57-6   |      |
| Naphthalene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:08 | 91-20-3   |      |
| Phenanthrene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/13/20 13:00 | 04/13/20 21:08 | 85-01-8   |      |
| Pyrene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:08 | 129-00-0  |      |
| <b>Surrogates</b>   |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)  | 90      | %     | 48-123 |       | 1  | 04/13/20 13:00 | 04/13/20 21:08 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 107     | %     | 68-138 |       | 1  | 04/13/20 13:00 | 04/13/20 21:08 | 1718-51-0 |      |
| <b>8260 MSV Low Level</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis                                      |         |       |        |       |    |                |                |           |      |
| Acetone   | <50.0   | ug/L  | 50.0   | 50.0  | 1  |                | 04/14/20 16:54 | 67-64-1   |      |
| Acrylonitrile   | <2.0    | ug/L  | 2.0    | 2.0   | 1  |                | 04/14/20 16:54 | 107-13-1  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale

Pace Project No.: 50254306

Sample: **MW-101** Lab ID: **50254306001** Collected: 04/08/20 13:34 Received: 04/10/20 08:25 Matrix: Water

| Parameters                  | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>   |         | Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| tert-Amylmethyl ether       | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/14/20 16:54 | 994-05-8   | N2   |
| Benzene                     | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/14/20 16:54 | 71-43-2    |      |
| Bromobenzene                | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/14/20 16:54 | 108-86-1   |      |
| Bromochloromethane          | <0.22   | ug/L   | 1.0  | 0.22 | 1  |          | 04/14/20 16:54 | 74-97-5    |      |
| Bromodichloromethane        | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/14/20 16:54 | 75-27-4    |      |
| Bromoform                   | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/14/20 16:54 | 75-25-2    |      |
| Bromomethane                | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/14/20 16:54 | 74-83-9    |      |
| 2-Butanone (MEK)            | <25.0   | ug/L   | 25.0 | 25.0 | 1  |          | 04/14/20 16:54 | 78-93-3    |      |
| tert-Butyl Alcohol          | <50.0   | ug/L   | 50.0 | 50.0 | 1  |          | 04/14/20 16:54 | 75-65-0    |      |
| n-Butylbenzene              | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/14/20 16:54 | 104-51-8   |      |
| sec-Butylbenzene            | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/14/20 16:54 | 135-98-8   |      |
| tert-Butylbenzene           | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/14/20 16:54 | 98-06-6    |      |
| Carbon disulfide            | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/14/20 16:54 | 75-15-0    |      |
| Carbon tetrachloride        | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/14/20 16:54 | 56-23-5    |      |
| Chlorobenzene               | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/14/20 16:54 | 108-90-7   |      |
| Chloroethane                | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/14/20 16:54 | 75-00-3    |      |
| Chloroform                  | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/14/20 16:54 | 67-66-3    |      |
| Chloromethane               | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/14/20 16:54 | 74-87-3    |      |
| Cyclohexane                 | <10.0   | ug/L   | 10.0 | 10.0 | 1  |          | 04/14/20 16:54 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane | <0.25   | ug/L   | 0.50 | 0.25 | 1  |          | 04/14/20 16:54 | 96-12-8    |      |
| Dibromochloromethane        | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/14/20 16:54 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | <0.23   | ug/L   | 0.50 | 0.23 | 1  |          | 04/14/20 16:54 | 106-93-4   |      |
| Dibromomethane              | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/14/20 16:54 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/14/20 16:54 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/14/20 16:54 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/14/20 16:54 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | <0.40   | ug/L   | 100  | 0.40 | 1  |          | 04/14/20 16:54 | 110-57-6   |      |
| Dichlorodifluoromethane     | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/14/20 16:54 | 75-71-8    |      |
| 1,1-Dichloroethane          | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/14/20 16:54 | 75-34-3    |      |
| 1,2-Dichloroethane          | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/14/20 16:54 | 107-06-2   |      |
| 1,1-Dichloroethene          | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/14/20 16:54 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/14/20 16:54 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/14/20 16:54 | 156-60-5   |      |
| 1,2-Dichloropropane         | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/14/20 16:54 | 78-87-5    |      |
| cis-1,3-Dichloropropene     | <100    | ug/L   | 100  | 100  | 1  |          | 04/14/20 16:54 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | <100    | ug/L   | 100  | 100  | 1  |          | 04/14/20 16:54 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether) | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/14/20 16:54 | 60-29-7    |      |
| Diisopropyl ether           | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/14/20 16:54 | 108-20-3   | N2   |
| Ethylbenzene                | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/14/20 16:54 | 100-41-4   |      |
| Ethyl-tert-butyl ether      | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/14/20 16:54 | 637-92-3   | N2   |
| Hexachloroethane            | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/14/20 16:54 | 67-72-1    | N2   |
| 2-Hexanone                  | <50.0   | ug/L   | 50.0 | 50.0 | 1  |          | 04/14/20 16:54 | 591-78-6   |      |
| Iodomethane                 | <0.51   | ug/L   | 5.0  | 0.51 | 1  |          | 04/14/20 16:54 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/14/20 16:54 | 98-82-8    |      |
| p-Isopropyltoluene          | <0.11   | ug/L   | 1.0  | 0.11 | 1  |          | 04/14/20 16:54 | 99-87-6    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-101**      **Lab ID: 50254306001**      Collected: 04/08/20 13:34      Received: 04/10/20 08:25      Matrix: Water

| Parameters                  | Results | Units  | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|-----------------------------|---------|--|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>   |         | Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis |        |      |    |          |                |             |      |
| Methylene Chloride          | <5.0    | ug/L   | 5.0    | 5.0  | 1  |          | 04/14/20 16:54 | 75-09-2     |      |
| 2-Methylnaphthalene         | <5.0    | ug/L   | 20.0   | 5.0  | 1  |          | 04/14/20 16:54 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK) | <50.0   | ug/L   | 50.0   | 50.0 | 1  |          | 04/14/20 16:54 | 108-10-1    |      |
| Methyl-tert-butyl ether     | <5.0    | ug/L   | 5.0    | 5.0  | 1  |          | 04/14/20 16:54 | 1634-04-4   |      |
| Naphthalene                 | <5.0    | ug/L   | 5.0    | 5.0  | 1  |          | 04/14/20 16:54 | 91-20-3     |      |
| n-Propylbenzene             | <100    | ug/L   | 100    | 100  | 1  |          | 04/14/20 16:54 | 103-65-1    |      |
| Styrene                     | <1.0    | ug/L   | 1.0    | 1.0  | 1  |          | 04/14/20 16:54 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane   | <1.0    | ug/L   | 1.0    | 1.0  | 1  |          | 04/14/20 16:54 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane   | <1.0    | ug/L   | 1.0    | 1.0  | 1  |          | 04/14/20 16:54 | 79-34-5     |      |
| Tetrachloroethene           | <1.0    | ug/L   | 1.0    | 1.0  | 1  |          | 04/14/20 16:54 | 127-18-4    |      |
| Tetrahydrofuran             | <90.0   | ug/L   | 90.0   | 90.0 | 1  |          | 04/14/20 16:54 | 109-99-9    | N2   |
| Toluene                     | <1.0    | ug/L   | 1.0    | 1.0  | 1  |          | 04/14/20 16:54 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene      | <5.0    | ug/L   | 5.0    | 5.0  | 1  |          | 04/14/20 16:54 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene      | <5.0    | ug/L   | 5.0    | 5.0  | 1  |          | 04/14/20 16:54 | 120-82-1    |      |
| 1,1,1-Trichloroethane       | <1.0    | ug/L   | 1.0    | 1.0  | 1  |          | 04/14/20 16:54 | 71-55-6     |      |
| 1,1,2-Trichloroethane       | <1.0    | ug/L   | 1.0    | 1.0  | 1  |          | 04/14/20 16:54 | 79-00-5     |      |
| Trichloroethene             | <1.0    | ug/L   | 1.0    | 1.0  | 1  |          | 04/14/20 16:54 | 79-01-6     |      |
| Trichlorofluoromethane      | <1.0    | ug/L   | 2.0    | 1.0  | 1  |          | 04/14/20 16:54 | 75-69-4     |      |
| 1,2,3-Trichloropropane      | <1.0    | ug/L   | 1.0    | 1.0  | 1  |          | 04/14/20 16:54 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene      | <5.0    | ug/L   | 5.0    | 5.0  | 1  |          | 04/14/20 16:54 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene      | <1.0    | ug/L   | 5.0    | 1.0  | 1  |          | 04/14/20 16:54 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene      | <1.0    | ug/L   | 5.0    | 1.0  | 1  |          | 04/14/20 16:54 | 108-67-8    |      |
| Vinyl chloride              | <1.0    | ug/L   | 1.0    | 1.0  | 1  |          | 04/14/20 16:54 | 75-01-4     |      |
| m&p-Xylene                  | <0.24   | ug/L   | 2.0    | 0.24 | 1  |          | 04/14/20 16:54 | 179601-23-1 |      |
| o-Xylene                    | <0.16   | ug/L   | 1.0    | 0.16 | 1  |          | 04/14/20 16:54 | 95-47-6     |      |
| <b>Surrogates</b>           |         |  |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)    | 109     | %  | 85-116 |      | 1  |          | 04/14/20 16:54 | 460-00-4    |      |
| Dibromofluoromethane (S)    | 96      | %  | 75-120 |      | 1  |          | 04/14/20 16:54 | 1868-53-7   |      |
| Toluene-d8 (S)              | 98      | %  | 83-111 |      | 1  |          | 04/14/20 16:54 | 2037-26-5   |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-102**      **Lab ID: 50254306002**      Collected: 04/08/20 14:29      Received: 04/10/20 08:25      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in water</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol<br>Pace Analytical Services - Indianapolis                             |         |       |        |       |    |                |                |           |      |
| n-Butanol   | <800    | ug/L  | 5000   | 800   | 1  |                | 04/13/20 19:30 | 71-36-3   |      |
| Ethanol   | <1000   | ug/L  | 5000   | 1000  | 1  |                | 04/13/20 19:30 | 64-17-5   |      |
| Methanol  | <400    | ug/L  | 5000   | 400   | 1  |                | 04/13/20 19:30 | 67-56-1   |      |
| <b>6020 MET ICPMS</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020    Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis           |         |       |        |       |    |                |                |           |      |
| Arsenic   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 18:40 | 7440-38-2 |      |
| Barium  | <100    | ug/L  | 100    | 100   | 1  | 04/13/20 08:44 | 04/15/20 18:40 | 7440-39-3 |      |
| Cadmium   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 08:44 | 04/15/20 18:40 | 7440-43-9 |      |
| Chromium  | <10.0   | ug/L  | 10.0   | 10.0  | 1  | 04/13/20 08:44 | 04/15/20 18:40 | 7440-47-3 |      |
| Lead  | <3.0    | ug/L  | 3.0    | 3.0   | 1  | 04/13/20 08:44 | 04/15/20 18:40 | 7439-92-1 |      |
| Selenium  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 18:40 | 7782-49-2 |      |
| Silver  | <0.20   | ug/L  | 0.25   | 0.20  | 1  | 04/13/20 08:44 | 04/15/20 18:40 | 7440-22-4 |      |
| <b>7470 Mercury</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7470    Preparation Method: EPA 7470<br>Pace Analytical Services - Indianapolis            |         |       |        |       |    |                |                |           |      |
| Mercury   | <0.079  | ug/L  | 0.20   | 0.079 | 1  | 04/16/20 10:33 | 04/17/20 10:57 | 7439-97-6 |      |
| <b>8270 PAH by 3511</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM 40E    Preparation Method: EPA 3511<br>Pace Analytical Services - Indianapolis |         |       |        |       |    |                |                |           |      |
| Acenaphthene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:19 | 83-32-9   |      |
| Acenaphthylene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:19 | 208-96-8  |      |
| Anthracene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:19 | 120-12-7  |      |
| Benzo(a)anthracene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 21:19 | 56-55-3   |      |
| Benzo(a)pyrene  | <0.20   | ug/L  | 0.20   | 0.20  | 1  | 04/13/20 13:00 | 04/13/20 21:19 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 21:19 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 21:19 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 21:19 | 207-08-9  |      |
| Chrysene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 21:19 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/13/20 13:00 | 04/13/20 21:19 | 53-70-3   |      |
| Fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 21:19 | 206-44-0  |      |
| Fluorene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:19 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/13/20 13:00 | 04/13/20 21:19 | 193-39-5  |      |
| 2-Methylnaphthalene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:19 | 91-57-6   |      |
| Naphthalene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:19 | 91-20-3   |      |
| Phenanthrene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/13/20 13:00 | 04/13/20 21:19 | 85-01-8   |      |
| Pyrene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:19 | 129-00-0  |      |
| <b>Surrogates</b>   |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)  | 96      | %     | 48-123 |       | 1  | 04/13/20 13:00 | 04/13/20 21:19 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 108     | %     | 68-138 |       | 1  | 04/13/20 13:00 | 04/13/20 21:19 | 1718-51-0 |      |
| <b>8260 MSV Low Level</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis                                      |         |       |        |       |    |                |                |           |      |
| Acetone   | <50.0   | ug/L  | 50.0   | 50.0  | 1  |                | 04/14/20 16:38 | 67-64-1   |      |
| Acrylonitrile   | <2.0    | ug/L  | 2.0    | 2.0   | 1  |                | 04/14/20 16:38 | 107-13-1  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

Sample: **MW-102** Lab ID: **50254306002** Collected: 04/08/20 14:29 Received: 04/10/20 08:25 Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| tert-Amylmethyl ether                   | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 16:38 | 994-05-8   | N2   |
| Benzene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 16:38 | 71-43-2    |      |
| Bromobenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 16:38 | 108-86-1   |      |
| Bromochloromethane                      | <0.59   | ug/L  | 1.0  | 0.59 | 1  |          | 04/14/20 16:38 | 74-97-5    |      |
| Bromodichloromethane                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 16:38 | 75-27-4    |      |
| Bromoform                               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 16:38 | 75-25-2    |      |
| Bromomethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 16:38 | 74-83-9    |      |
| 2-Butanone (MEK)                        | <25.0   | ug/L  | 25.0 | 25.0 | 1  |          | 04/14/20 16:38 | 78-93-3    |      |
| tert-Butyl Alcohol                      | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/14/20 16:38 | 75-65-0    |      |
| n-Butylbenzene                          | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 16:38 | 104-51-8   |      |
| sec-Butylbenzene                        | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 16:38 | 135-98-8   |      |
| tert-Butylbenzene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 16:38 | 98-06-6    |      |
| Carbon disulfide                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 16:38 | 75-15-0    |      |
| Carbon tetrachloride                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 16:38 | 56-23-5    |      |
| Chlorobenzene                           | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 16:38 | 108-90-7   |      |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 16:38 | 75-00-3    |      |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 16:38 | 67-66-3    |      |
| Chloromethane                           | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 16:38 | 74-87-3    |      |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 04/14/20 16:38 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 04/14/20 16:38 | 96-12-8    |      |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 16:38 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 04/14/20 16:38 | 106-93-4   |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 16:38 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 16:38 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 16:38 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 16:38 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.82   | ug/L  | 100  | 0.82 | 1  |          | 04/14/20 16:38 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 16:38 | 75-71-8    |      |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 16:38 | 75-34-3    |      |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 16:38 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 16:38 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 16:38 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 16:38 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 16:38 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 04/14/20 16:38 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 04/14/20 16:38 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 16:38 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 16:38 | 108-20-3   | N2   |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 16:38 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 16:38 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 16:38 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/14/20 16:38 | 591-78-6   |      |
| Iodomethane                             | <0.45   | ug/L  | 5.0  | 0.45 | 1  |          | 04/14/20 16:38 | 74-88-4    |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 16:38 | 98-82-8    |      |
| p-Isopropyltoluene                      | <0.28   | ug/L  | 1.0  | 0.28 | 1  |          | 04/14/20 16:38 | 99-87-6    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-102**      **Lab ID: 50254306002**      Collected: 04/08/20 14:29      Received: 04/10/20 08:25      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/14/20 16:38 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0   | 5.0  | 1  |          | 04/14/20 16:38 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0   | 50.0 | 1  |          | 04/14/20 16:38 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/14/20 16:38 | 1634-04-4   |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/14/20 16:38 | 91-20-3     |      |
| n-Propylbenzene                         | <100    | ug/L  | 100    | 100  | 1  |          | 04/14/20 16:38 | 103-65-1    |      |
| Styrene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/14/20 16:38 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/14/20 16:38 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/14/20 16:38 | 79-34-5     |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/14/20 16:38 | 127-18-4    |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0   | 90.0 | 1  |          | 04/14/20 16:38 | 109-99-9    | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/14/20 16:38 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/14/20 16:38 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/14/20 16:38 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/14/20 16:38 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/14/20 16:38 | 79-00-5     |      |
| Trichloroethene                         | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/14/20 16:38 | 79-01-6     |      |
| Trichlorofluoromethane                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 04/14/20 16:38 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/14/20 16:38 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/14/20 16:38 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/14/20 16:38 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/14/20 16:38 | 108-67-8    |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/14/20 16:38 | 75-01-4     |      |
| m&p-Xylene                              | <0.16   | ug/L  | 2.0    | 0.16 | 1  |          | 04/14/20 16:38 | 179601-23-1 |      |
| o-Xylene                                | <0.39   | ug/L  | 1.0    | 0.39 | 1  |          | 04/14/20 16:38 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 109     | %     | 85-116 |      | 1  |          | 04/14/20 16:38 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 99      | %     | 75-120 |      | 1  |          | 04/14/20 16:38 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 97      | %     | 83-111 |      | 1  |          | 04/14/20 16:38 | 2037-26-5   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-103**      **Lab ID: 50254306003**      Collected: 04/08/20 15:08      Received: 04/10/20 08:25      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in water</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol<br>Pace Analytical Services - Indianapolis                             |         |       |        |       |    |                |                |           |      |
| n-Butanol   | <800    | ug/L  | 5000   | 800   | 1  |                | 04/13/20 19:39 | 71-36-3   |      |
| Ethanol   | <1000   | ug/L  | 5000   | 1000  | 1  |                | 04/13/20 19:39 | 64-17-5   |      |
| Methanol  | <400    | ug/L  | 5000   | 400   | 1  |                | 04/13/20 19:39 | 67-56-1   |      |
| <b>6020 MET ICPMS</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020    Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis           |         |       |        |       |    |                |                |           |      |
| Arsenic   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 18:44 | 7440-38-2 |      |
| Barium  | <100    | ug/L  | 100    | 100   | 1  | 04/13/20 08:44 | 04/15/20 18:44 | 7440-39-3 |      |
| Cadmium   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 08:44 | 04/15/20 18:44 | 7440-43-9 |      |
| Chromium  | <10.0   | ug/L  | 10.0   | 10.0  | 1  | 04/13/20 08:44 | 04/15/20 18:44 | 7440-47-3 |      |
| Lead  | <3.0    | ug/L  | 3.0    | 3.0   | 1  | 04/13/20 08:44 | 04/15/20 18:44 | 7439-92-1 |      |
| Selenium  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 18:44 | 7782-49-2 |      |
| Silver  | <0.20   | ug/L  | 0.25   | 0.20  | 1  | 04/13/20 08:44 | 04/15/20 18:44 | 7440-22-4 |      |
| <b>7470 Mercury</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7470    Preparation Method: EPA 7470<br>Pace Analytical Services - Indianapolis            |         |       |        |       |    |                |                |           |      |
| Mercury   | <0.079  | ug/L  | 0.20   | 0.079 | 1  | 04/16/20 10:33 | 04/17/20 11:04 | 7439-97-6 |      |
| <b>8270 PAH by 3511</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM 40E    Preparation Method: EPA 3511<br>Pace Analytical Services - Indianapolis |         |       |        |       |    |                |                |           |      |
| Acenaphthene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:30 | 83-32-9   |      |
| Acenaphthylene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:30 | 208-96-8  |      |
| Anthracene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:30 | 120-12-7  |      |
| Benzo(a)anthracene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 21:30 | 56-55-3   |      |
| Benzo(a)pyrene  | <0.20   | ug/L  | 0.20   | 0.20  | 1  | 04/13/20 13:00 | 04/13/20 21:30 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 21:30 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 21:30 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 21:30 | 207-08-9  |      |
| Chrysene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 21:30 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/13/20 13:00 | 04/13/20 21:30 | 53-70-3   |      |
| Fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 21:30 | 206-44-0  |      |
| Fluorene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:30 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/13/20 13:00 | 04/13/20 21:30 | 193-39-5  |      |
| 2-Methylnaphthalene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:30 | 91-57-6   |      |
| Naphthalene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:30 | 91-20-3   |      |
| Phenanthrene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/13/20 13:00 | 04/13/20 21:30 | 85-01-8   |      |
| Pyrene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:30 | 129-00-0  |      |
| <b>Surrogates</b>   |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)  | 94      | %     | 48-123 |       | 1  | 04/13/20 13:00 | 04/13/20 21:30 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 113     | %     | 68-138 |       | 1  | 04/13/20 13:00 | 04/13/20 21:30 | 1718-51-0 |      |
| <b>8260 MSV Low Level</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis                                      |         |       |        |       |    |                |                |           |      |
| Acetone   | <50.0   | ug/L  | 50.0   | 50.0  | 1  |                | 04/14/20 17:11 | 67-64-1   |      |
| Acrylonitrile   | <2.0    | ug/L  | 2.0    | 2.0   | 1  |                | 04/14/20 17:11 | 107-13-1  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-103**      **Lab ID: 50254306003**      Collected: 04/08/20 15:08      Received: 04/10/20 08:25      Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| tert-Amylmethyl ether                   | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 17:11 | 994-05-8   | N2   |
| Benzene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:11 | 71-43-2    |      |
| Bromobenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:11 | 108-86-1   |      |
| Bromochloromethane                      | <0.59   | ug/L  | 1.0  | 0.59 | 1  |          | 04/14/20 17:11 | 74-97-5    |      |
| Bromodichloromethane                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:11 | 75-27-4    |      |
| Bromoform                               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:11 | 75-25-2    |      |
| Bromomethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 17:11 | 74-83-9    |      |
| 2-Butanone (MEK)                        | <25.0   | ug/L  | 25.0 | 25.0 | 1  |          | 04/14/20 17:11 | 78-93-3    |      |
| tert-Butyl Alcohol                      | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/14/20 17:11 | 75-65-0    |      |
| n-Butylbenzene                          | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:11 | 104-51-8   |      |
| sec-Butylbenzene                        | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:11 | 135-98-8   |      |
| tert-Butylbenzene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:11 | 98-06-6    |      |
| Carbon disulfide                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 17:11 | 75-15-0    |      |
| Carbon tetrachloride                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:11 | 56-23-5    |      |
| Chlorobenzene                           | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:11 | 108-90-7   |      |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 17:11 | 75-00-3    |      |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:11 | 67-66-3    |      |
| Chloromethane                           | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 17:11 | 74-87-3    |      |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 04/14/20 17:11 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 04/14/20 17:11 | 96-12-8    |      |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 17:11 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 04/14/20 17:11 | 106-93-4   |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 17:11 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:11 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:11 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:11 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.82   | ug/L  | 100  | 0.82 | 1  |          | 04/14/20 17:11 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 17:11 | 75-71-8    |      |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:11 | 75-34-3    |      |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:11 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:11 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:11 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:11 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:11 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 04/14/20 17:11 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 04/14/20 17:11 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 17:11 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 17:11 | 108-20-3   | N2   |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:11 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 17:11 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 17:11 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/14/20 17:11 | 591-78-6   |      |
| Iodomethane                             | <0.45   | ug/L  | 5.0  | 0.45 | 1  |          | 04/14/20 17:11 | 74-88-4    |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 17:11 | 98-82-8    |      |
| p-Isopropyltoluene                      | <0.28   | ug/L  | 1.0  | 0.28 | 1  |          | 04/14/20 17:11 | 99-87-6    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-103**      **Lab ID: 50254306003**      Collected: 04/08/20 15:08      Received: 04/10/20 08:25      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/14/20 17:11 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0   | 5.0  | 1  |          | 04/14/20 17:11 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0   | 50.0 | 1  |          | 04/14/20 17:11 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/14/20 17:11 | 1634-04-4   |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/14/20 17:11 | 91-20-3     |      |
| n-Propylbenzene                         | <100    | ug/L  | 100    | 100  | 1  |          | 04/14/20 17:11 | 103-65-1    |      |
| Styrene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/14/20 17:11 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/14/20 17:11 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/14/20 17:11 | 79-34-5     |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/14/20 17:11 | 127-18-4    |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0   | 90.0 | 1  |          | 04/14/20 17:11 | 109-99-9    | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/14/20 17:11 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/14/20 17:11 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/14/20 17:11 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/14/20 17:11 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/14/20 17:11 | 79-00-5     |      |
| Trichloroethene                         | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/14/20 17:11 | 79-01-6     |      |
| Trichlorofluoromethane                  | 1.9J    | ug/L  | 2.0    | 1.0  | 1  |          | 04/14/20 17:11 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/14/20 17:11 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/14/20 17:11 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/14/20 17:11 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/14/20 17:11 | 108-67-8    |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/14/20 17:11 | 75-01-4     |      |
| m&p-Xylene                              | <0.16   | ug/L  | 2.0    | 0.16 | 1  |          | 04/14/20 17:11 | 179601-23-1 |      |
| o-Xylene                                | <0.39   | ug/L  | 1.0    | 0.39 | 1  |          | 04/14/20 17:11 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 108     | %     | 85-116 |      | 1  |          | 04/14/20 17:11 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 100     | %     | 75-120 |      | 1  |          | 04/14/20 17:11 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 98      | %     | 83-111 |      | 1  |          | 04/14/20 17:11 | 2037-26-5   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale

Pace Project No.: 50254306

**Sample: MW-104**      **Lab ID: 50254306004**      Collected: 04/08/20 15:48      Received: 04/10/20 08:25      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in water</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol<br>Pace Analytical Services - Indianapolis                             |         |       |        |       |    |                |                |           |      |
| n-Butanol   | <800    | ug/L  | 5000   | 800   | 1  |                | 04/13/20 19:49 | 71-36-3   |      |
| Ethanol   | <1000   | ug/L  | 5000   | 1000  | 1  |                | 04/13/20 19:49 | 64-17-5   |      |
| Methanol  | <400    | ug/L  | 5000   | 400   | 1  |                | 04/13/20 19:49 | 67-56-1   |      |
| <b>6020 MET ICPMS</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020    Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis           |         |       |        |       |    |                |                |           |      |
| Arsenic   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 18:49 | 7440-38-2 |      |
| Barium  | <100    | ug/L  | 100    | 100   | 1  | 04/13/20 08:44 | 04/15/20 18:49 | 7440-39-3 |      |
| Cadmium   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 08:44 | 04/15/20 18:49 | 7440-43-9 |      |
| Chromium  | <10.0   | ug/L  | 10.0   | 10.0  | 1  | 04/13/20 08:44 | 04/15/20 18:49 | 7440-47-3 |      |
| Lead  | <3.0    | ug/L  | 3.0    | 3.0   | 1  | 04/13/20 08:44 | 04/15/20 18:49 | 7439-92-1 |      |
| Selenium  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 18:49 | 7782-49-2 |      |
| Silver  | <0.20   | ug/L  | 0.25   | 0.20  | 1  | 04/13/20 08:44 | 04/15/20 18:49 | 7440-22-4 |      |
| <b>7470 Mercury</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7470    Preparation Method: EPA 7470<br>Pace Analytical Services - Indianapolis            |         |       |        |       |    |                |                |           |      |
| Mercury   | <0.079  | ug/L  | 0.20   | 0.079 | 1  | 04/16/20 10:33 | 04/17/20 11:06 | 7439-97-6 |      |
| <b>8270 PAH by 3511</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM 40E    Preparation Method: EPA 3511<br>Pace Analytical Services - Indianapolis |         |       |        |       |    |                |                |           |      |
| Acenaphthene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:40 | 83-32-9   |      |
| Acenaphthylene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:40 | 208-96-8  |      |
| Anthracene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:40 | 120-12-7  |      |
| Benzo(a)anthracene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 21:40 | 56-55-3   |      |
| Benzo(a)pyrene  | <0.20   | ug/L  | 0.20   | 0.20  | 1  | 04/13/20 13:00 | 04/13/20 21:40 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 21:40 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 21:40 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 21:40 | 207-08-9  |      |
| Chrysene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 21:40 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/13/20 13:00 | 04/13/20 21:40 | 53-70-3   |      |
| Fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 21:40 | 206-44-0  |      |
| Fluorene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:40 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/13/20 13:00 | 04/13/20 21:40 | 193-39-5  |      |
| 2-Methylnaphthalene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:40 | 91-57-6   |      |
| Naphthalene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:40 | 91-20-3   |      |
| Phenanthrene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/13/20 13:00 | 04/13/20 21:40 | 85-01-8   |      |
| Pyrene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:40 | 129-00-0  |      |
| <b>Surrogates</b>   |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)  | 87      | %     | 48-123 |       | 1  | 04/13/20 13:00 | 04/13/20 21:40 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 109     | %     | 68-138 |       | 1  | 04/13/20 13:00 | 04/13/20 21:40 | 1718-51-0 |      |
| <b>8260 MSV Low Level</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis                                      |         |       |        |       |    |                |                |           |      |
| Acetone   | <50.0   | ug/L  | 50.0   | 50.0  | 1  |                | 04/14/20 17:43 | 67-64-1   |      |
| Acrylonitrile   | <2.0    | ug/L  | 2.0    | 2.0   | 1  |                | 04/14/20 17:43 | 107-13-1  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale

Pace Project No.: 50254306

**Sample: MW-104**      **Lab ID: 50254306004**      Collected: 04/08/20 15:48      Received: 04/10/20 08:25      Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| tert-Amylmethyl ether                   | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 17:43 | 994-05-8   | N2   |
| Benzene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:43 | 71-43-2    |      |
| Bromobenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:43 | 108-86-1   |      |
| Bromochloromethane                      | <0.59   | ug/L  | 1.0  | 0.59 | 1  |          | 04/14/20 17:43 | 74-97-5    |      |
| Bromodichloromethane                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:43 | 75-27-4    |      |
| Bromoform                               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:43 | 75-25-2    |      |
| Bromomethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 17:43 | 74-83-9    |      |
| 2-Butanone (MEK)                        | <25.0   | ug/L  | 25.0 | 25.0 | 1  |          | 04/14/20 17:43 | 78-93-3    |      |
| tert-Butyl Alcohol                      | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/14/20 17:43 | 75-65-0    |      |
| n-Butylbenzene                          | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:43 | 104-51-8   |      |
| sec-Butylbenzene                        | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:43 | 135-98-8   |      |
| tert-Butylbenzene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:43 | 98-06-6    |      |
| Carbon disulfide                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 17:43 | 75-15-0    |      |
| Carbon tetrachloride                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:43 | 56-23-5    |      |
| Chlorobenzene                           | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:43 | 108-90-7   |      |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 17:43 | 75-00-3    |      |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:43 | 67-66-3    |      |
| Chloromethane                           | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 17:43 | 74-87-3    |      |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 04/14/20 17:43 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 04/14/20 17:43 | 96-12-8    |      |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 17:43 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 04/14/20 17:43 | 106-93-4   |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 17:43 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:43 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:43 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:43 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.82   | ug/L  | 100  | 0.82 | 1  |          | 04/14/20 17:43 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 17:43 | 75-71-8    |      |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:43 | 75-34-3    |      |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:43 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:43 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:43 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:43 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:43 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 04/14/20 17:43 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 04/14/20 17:43 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 17:43 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 17:43 | 108-20-3   | N2   |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/14/20 17:43 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 17:43 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 17:43 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/14/20 17:43 | 591-78-6   |      |
| Iodomethane                             | <0.45   | ug/L  | 5.0  | 0.45 | 1  |          | 04/14/20 17:43 | 74-88-4    |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/14/20 17:43 | 98-82-8    |      |
| p-Isopropyltoluene                      | <0.28   | ug/L  | 1.0  | 0.28 | 1  |          | 04/14/20 17:43 | 99-87-6    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-104**      **Lab ID: 50254306004**      Collected: 04/08/20 15:48      Received: 04/10/20 08:25      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/14/20 17:43 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0   | 5.0  | 1  |          | 04/14/20 17:43 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0   | 50.0 | 1  |          | 04/14/20 17:43 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/14/20 17:43 | 1634-04-4   |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/14/20 17:43 | 91-20-3     |      |
| n-Propylbenzene                         | <100    | ug/L  | 100    | 100  | 1  |          | 04/14/20 17:43 | 103-65-1    |      |
| Styrene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/14/20 17:43 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/14/20 17:43 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/14/20 17:43 | 79-34-5     |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/14/20 17:43 | 127-18-4    |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0   | 90.0 | 1  |          | 04/14/20 17:43 | 109-99-9    | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/14/20 17:43 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/14/20 17:43 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/14/20 17:43 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/14/20 17:43 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/14/20 17:43 | 79-00-5     |      |
| Trichloroethene                         | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/14/20 17:43 | 79-01-6     |      |
| Trichlorofluoromethane                  | 2.3     | ug/L  | 2.0    | 1.0  | 1  |          | 04/14/20 17:43 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/14/20 17:43 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/14/20 17:43 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/14/20 17:43 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/14/20 17:43 | 108-67-8    |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/14/20 17:43 | 75-01-4     |      |
| m&p-Xylene                              | <0.16   | ug/L  | 2.0    | 0.16 | 1  |          | 04/14/20 17:43 | 179601-23-1 |      |
| o-Xylene                                | <0.39   | ug/L  | 1.0    | 0.39 | 1  |          | 04/14/20 17:43 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 109     | %     | 85-116 |      | 1  |          | 04/14/20 17:43 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 98      | %     | 75-120 |      | 1  |          | 04/14/20 17:43 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 99      | %     | 83-111 |      | 1  |          | 04/14/20 17:43 | 2037-26-5   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-105**      **Lab ID: 50254306005**      Collected: 04/08/20 16:23      Received: 04/10/20 08:25      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in water</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol<br>Pace Analytical Services - Indianapolis                               |         |       |        |       |    |                |                |           |      |
| n-Butanol   | <800    | ug/L  | 5000   | 800   | 1  |                | 04/13/20 19:58 | 71-36-3   |      |
| Ethanol   | <1000   | ug/L  | 5000   | 1000  | 1  |                | 04/13/20 19:58 | 64-17-5   |      |
| Methanol  | <400    | ug/L  | 5000   | 400   | 1  |                | 04/13/20 19:58 | 67-56-1   |      |
| <b>6020 MET ICPMS</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis           |         |       |        |       |    |                |                |           |      |
| Arsenic   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 19:21 | 7440-38-2 |      |
| Barium  | <100    | ug/L  | 100    | 100   | 1  | 04/13/20 08:44 | 04/15/20 19:21 | 7440-39-3 |      |
| Cadmium   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 08:44 | 04/15/20 19:21 | 7440-43-9 |      |
| Chromium  | <10.0   | ug/L  | 10.0   | 10.0  | 1  | 04/13/20 08:44 | 04/15/20 19:21 | 7440-47-3 |      |
| Lead  | <3.0    | ug/L  | 3.0    | 3.0   | 1  | 04/13/20 08:44 | 04/15/20 19:21 | 7439-92-1 |      |
| Selenium  | 5.4     | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 19:21 | 7782-49-2 |      |
| Silver  | <0.20   | ug/L  | 0.25   | 0.20  | 1  | 04/13/20 08:44 | 04/15/20 19:21 | 7440-22-4 |      |
| <b>7470 Mercury</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7470      Preparation Method: EPA 7470<br>Pace Analytical Services - Indianapolis            |         |       |        |       |    |                |                |           |      |
| Mercury   | <0.079  | ug/L  | 0.20   | 0.079 | 1  | 04/16/20 10:33 | 04/17/20 11:09 | 7439-97-6 |      |
| <b>8270 PAH by 3511</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM 40E      Preparation Method: EPA 3511<br>Pace Analytical Services - Indianapolis |         |       |        |       |    |                |                |           |      |
| Acenaphthene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:51 | 83-32-9   |      |
| Acenaphthylene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:51 | 208-96-8  |      |
| Anthracene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:51 | 120-12-7  |      |
| Benzo(a)anthracene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 21:51 | 56-55-3   |      |
| Benzo(a)pyrene  | <0.20   | ug/L  | 0.20   | 0.20  | 1  | 04/13/20 13:00 | 04/13/20 21:51 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 21:51 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 21:51 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 21:51 | 207-08-9  |      |
| Chrysene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 21:51 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/13/20 13:00 | 04/13/20 21:51 | 53-70-3   |      |
| Fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 21:51 | 206-44-0  |      |
| Fluorene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:51 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/13/20 13:00 | 04/13/20 21:51 | 193-39-5  |      |
| 2-Methylnaphthalene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:51 | 91-57-6   |      |
| Naphthalene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:51 | 91-20-3   |      |
| Phenanthrene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/13/20 13:00 | 04/13/20 21:51 | 85-01-8   |      |
| Pyrene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 21:51 | 129-00-0  |      |
| <b>Surrogates</b>   |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)  | 91      | %     | 48-123 |       | 1  | 04/13/20 13:00 | 04/13/20 21:51 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 105     | %     | 68-138 |       | 1  | 04/13/20 13:00 | 04/13/20 21:51 | 1718-51-0 |      |
| <b>8260 MSV Low Level</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis  |         |       |        |       |    |                |                |           |      |
| Acetone   | <50.0   | ug/L  | 50.0   | 50.0  | 1  |                | 04/15/20 00:49 | 67-64-1   |      |
| Acrylonitrile   | <2.0    | ug/L  | 2.0    | 2.0   | 1  |                | 04/15/20 00:49 | 107-13-1  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-105**      **Lab ID: 50254306005**      Collected: 04/08/20 16:23      Received: 04/10/20 08:25      Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| tert-Amylmethyl ether                   | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 00:49 | 994-05-8   | N2   |
| Benzene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 00:49 | 71-43-2    |      |
| Bromobenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 00:49 | 108-86-1   |      |
| Bromochloromethane                      | <0.59   | ug/L  | 1.0  | 0.59 | 1  |          | 04/15/20 00:49 | 74-97-5    |      |
| Bromodichloromethane                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 00:49 | 75-27-4    |      |
| Bromoform                               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 00:49 | 75-25-2    |      |
| Bromomethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 00:49 | 74-83-9    |      |
| 2-Butanone (MEK)                        | <25.0   | ug/L  | 25.0 | 25.0 | 1  |          | 04/15/20 00:49 | 78-93-3    |      |
| tert-Butyl Alcohol                      | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/15/20 00:49 | 75-65-0    |      |
| n-Butylbenzene                          | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 00:49 | 104-51-8   |      |
| sec-Butylbenzene                        | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 00:49 | 135-98-8   |      |
| tert-Butylbenzene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 00:49 | 98-06-6    |      |
| Carbon disulfide                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 00:49 | 75-15-0    |      |
| Carbon tetrachloride                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 00:49 | 56-23-5    |      |
| Chlorobenzene                           | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 00:49 | 108-90-7   |      |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 00:49 | 75-00-3    |      |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 00:49 | 67-66-3    |      |
| Chloromethane                           | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 00:49 | 74-87-3    |      |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 04/15/20 00:49 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 04/15/20 00:49 | 96-12-8    |      |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 00:49 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 04/15/20 00:49 | 106-93-4   |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 00:49 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 00:49 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 00:49 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 00:49 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.82   | ug/L  | 100  | 0.82 | 1  |          | 04/15/20 00:49 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 00:49 | 75-71-8    |      |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 00:49 | 75-34-3    |      |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 00:49 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 00:49 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 00:49 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 00:49 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 00:49 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 04/15/20 00:49 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 04/15/20 00:49 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 00:49 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 00:49 | 108-20-3   | N2   |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 00:49 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 00:49 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 00:49 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/15/20 00:49 | 591-78-6   |      |
| Iodomethane                             | <0.45   | ug/L  | 5.0  | 0.45 | 1  |          | 04/15/20 00:49 | 74-88-4    |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 00:49 | 98-82-8    |      |
| p-Isopropyltoluene                      | <0.28   | ug/L  | 1.0  | 0.28 | 1  |          | 04/15/20 00:49 | 99-87-6    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-105**      **Lab ID: 50254306005**      Collected: 04/08/20 16:23      Received: 04/10/20 08:25      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 00:49 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0   | 5.0  | 1  |          | 04/15/20 00:49 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0   | 50.0 | 1  |          | 04/15/20 00:49 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 00:49 | 1634-04-4   |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 00:49 | 91-20-3     |      |
| n-Propylbenzene                         | <100    | ug/L  | 100    | 100  | 1  |          | 04/15/20 00:49 | 103-65-1    |      |
| Styrene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 00:49 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 00:49 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 00:49 | 79-34-5     |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 00:49 | 127-18-4    |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0   | 90.0 | 1  |          | 04/15/20 00:49 | 109-99-9    | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 00:49 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 00:49 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 00:49 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 00:49 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 00:49 | 79-00-5     |      |
| Trichloroethene                         | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 00:49 | 79-01-6     |      |
| Trichlorofluoromethane                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 04/15/20 00:49 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 00:49 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 00:49 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/15/20 00:49 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/15/20 00:49 | 108-67-8    |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 00:49 | 75-01-4     |      |
| m&p-Xylene                              | <0.16   | ug/L  | 2.0    | 0.16 | 1  |          | 04/15/20 00:49 | 179601-23-1 |      |
| o-Xylene                                | <0.39   | ug/L  | 1.0    | 0.39 | 1  |          | 04/15/20 00:49 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 111     | %     | 85-116 |      | 1  |          | 04/15/20 00:49 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 100     | %     | 75-120 |      | 1  |          | 04/15/20 00:49 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 97      | %     | 83-111 |      | 1  |          | 04/15/20 00:49 | 2037-26-5   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-106**      **Lab ID: 50254306006**      Collected: 04/08/20 17:32      Received: 04/10/20 08:25      Matrix: Water

| Parameters   | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in water</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol<br>Pace Analytical Services - Indianapolis                          |         |       |        |       |    |                |                |           |      |
| n-Butanol  | <800    | ug/L  | 5000   | 800   | 1  |                | 04/13/20 20:09 | 71-36-3   |      |
| Ethanol  | <1000   | ug/L  | 5000   | 1000  | 1  |                | 04/13/20 20:09 | 64-17-5   |      |
| Methanol   | <400    | ug/L  | 5000   | 400   | 1  |                | 04/13/20 20:09 | 67-56-1   |      |
| <b>6020 MET ICPMS</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis           |         |       |        |       |    |                |                |           |      |
| Arsenic  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 19:25 | 7440-38-2 |      |
| Barium   | 135     | ug/L  | 100    | 100   | 1  | 04/13/20 08:44 | 04/15/20 19:25 | 7440-39-3 |      |
| Cadmium  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 08:44 | 04/15/20 19:25 | 7440-43-9 |      |
| Chromium   | <10.0   | ug/L  | 10.0   | 10.0  | 1  | 04/13/20 08:44 | 04/15/20 19:25 | 7440-47-3 |      |
| Lead   | <3.0    | ug/L  | 3.0    | 3.0   | 1  | 04/13/20 08:44 | 04/15/20 19:25 | 7439-92-1 |      |
| Selenium   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 19:25 | 7782-49-2 |      |
| Silver   | <0.20   | ug/L  | 0.25   | 0.20  | 1  | 04/13/20 08:44 | 04/15/20 19:25 | 7440-22-4 |      |
| <b>7470 Mercury</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7470 Preparation Method: EPA 7470<br>Pace Analytical Services - Indianapolis            |         |       |        |       |    |                |                |           |      |
| Mercury  | <0.079  | ug/L  | 0.20   | 0.079 | 1  | 04/16/20 10:33 | 04/17/20 11:11 | 7439-97-6 |      |
| <b>8270 PAH by 3511</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM 40E Preparation Method: EPA 3511<br>Pace Analytical Services - Indianapolis |         |       |        |       |    |                |                |           |      |
| Acenaphthene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:02 | 83-32-9   |      |
| Acenaphthylene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:02 | 208-96-8  |      |
| Anthracene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:02 | 120-12-7  |      |
| Benzo(a)anthracene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 22:02 | 56-55-3   |      |
| Benzo(a)pyrene   | <0.20   | ug/L  | 0.20   | 0.20  | 1  | 04/13/20 13:00 | 04/13/20 22:02 | 50-32-8   |      |
| Benzo(b)fluoranthene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 22:02 | 205-99-2  |      |
| Benzo(g,h,i)perylene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 22:02 | 191-24-2  |      |
| Benzo(k)fluoranthene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 22:02 | 207-08-9  |      |
| Chrysene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 22:02 | 218-01-9  |      |
| Dibenz(a,h)anthracene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/13/20 13:00 | 04/13/20 22:02 | 53-70-3   |      |
| Fluoranthene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 22:02 | 206-44-0  |      |
| Fluorene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:02 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/13/20 13:00 | 04/13/20 22:02 | 193-39-5  |      |
| 2-Methylnaphthalene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:02 | 91-57-6   |      |
| Naphthalene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:02 | 91-20-3   |      |
| Phenanthrene   | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/13/20 13:00 | 04/13/20 22:02 | 85-01-8   |      |
| Pyrene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:02 | 129-00-0  |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)   | 93      | %     | 48-123 |       | 1  | 04/13/20 13:00 | 04/13/20 22:02 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 106     | %     | 68-138 |       | 1  | 04/13/20 13:00 | 04/13/20 22:02 | 1718-51-0 |      |
| <b>8260 MSV Low Level</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis                                   |         |       |        |       |    |                |                |           |      |
| Acetone  | <50.0   | ug/L  | 50.0   | 50.0  | 1  |                | 04/15/20 01:21 | 67-64-1   |      |
| Acrylonitrile  | <2.0    | ug/L  | 2.0    | 2.0   | 1  |                | 04/15/20 01:21 | 107-13-1  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale

Pace Project No.: 50254306

**Sample: MW-106**      **Lab ID: 50254306006**      Collected: 04/08/20 17:32      Received: 04/10/20 08:25      Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| tert-Amylmethyl ether                   | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:21 | 994-05-8   | N2   |
| Benzene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:21 | 71-43-2    |      |
| Bromobenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:21 | 108-86-1   |      |
| Bromochloromethane                      | <0.59   | ug/L  | 1.0  | 0.59 | 1  |          | 04/15/20 01:21 | 74-97-5    |      |
| Bromodichloromethane                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:21 | 75-27-4    |      |
| Bromoform                               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:21 | 75-25-2    |      |
| Bromomethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:21 | 74-83-9    |      |
| 2-Butanone (MEK)                        | <25.0   | ug/L  | 25.0 | 25.0 | 1  |          | 04/15/20 01:21 | 78-93-3    |      |
| tert-Butyl Alcohol                      | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/15/20 01:21 | 75-65-0    |      |
| n-Butylbenzene                          | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:21 | 104-51-8   |      |
| sec-Butylbenzene                        | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:21 | 135-98-8   |      |
| tert-Butylbenzene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:21 | 98-06-6    |      |
| Carbon disulfide                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:21 | 75-15-0    |      |
| Carbon tetrachloride                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:21 | 56-23-5    |      |
| Chlorobenzene                           | 8.3     | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:21 | 108-90-7   |      |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:21 | 75-00-3    |      |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:21 | 67-66-3    |      |
| Chloromethane                           | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:21 | 74-87-3    |      |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 04/15/20 01:21 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 04/15/20 01:21 | 96-12-8    |      |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:21 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 04/15/20 01:21 | 106-93-4   |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:21 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:21 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:21 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:21 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.82   | ug/L  | 100  | 0.82 | 1  |          | 04/15/20 01:21 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:21 | 75-71-8    |      |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:21 | 75-34-3    |      |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:21 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:21 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:21 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:21 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:21 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 04/15/20 01:21 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 04/15/20 01:21 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:21 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:21 | 108-20-3   | N2   |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:21 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:21 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:21 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/15/20 01:21 | 591-78-6   |      |
| Iodomethane                             | <0.45   | ug/L  | 5.0  | 0.45 | 1  |          | 04/15/20 01:21 | 74-88-4    |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:21 | 98-82-8    |      |
| p-Isopropyltoluene                      | <0.28   | ug/L  | 1.0  | 0.28 | 1  |          | 04/15/20 01:21 | 99-87-6    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale

Pace Project No.: 50254306

**Sample: MW-106**      **Lab ID: 50254306006**      Collected: 04/08/20 17:32      Received: 04/10/20 08:25      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 01:21 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0   | 5.0  | 1  |          | 04/15/20 01:21 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0   | 50.0 | 1  |          | 04/15/20 01:21 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 01:21 | 1634-04-4   |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 01:21 | 91-20-3     |      |
| n-Propylbenzene                         | <100    | ug/L  | 100    | 100  | 1  |          | 04/15/20 01:21 | 103-65-1    |      |
| Styrene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:21 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:21 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:21 | 79-34-5     |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:21 | 127-18-4    |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0   | 90.0 | 1  |          | 04/15/20 01:21 | 109-99-9    | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:21 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 01:21 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 01:21 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:21 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:21 | 79-00-5     |      |
| Trichloroethene                         | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:21 | 79-01-6     |      |
| Trichlorofluoromethane                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 04/15/20 01:21 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:21 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 01:21 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/15/20 01:21 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/15/20 01:21 | 108-67-8    |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:21 | 75-01-4     |      |
| m&p-Xylene                              | <0.16   | ug/L  | 2.0    | 0.16 | 1  |          | 04/15/20 01:21 | 179601-23-1 |      |
| o-Xylene                                | <0.39   | ug/L  | 1.0    | 0.39 | 1  |          | 04/15/20 01:21 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 109     | %     | 85-116 |      | 1  |          | 04/15/20 01:21 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 101     | %     | 75-120 |      | 1  |          | 04/15/20 01:21 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 96      | %     | 83-111 |      | 1  |          | 04/15/20 01:21 | 2037-26-5   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-107**      **Lab ID: 50254306007**      Collected: 04/08/20 18:08      Received: 04/10/20 08:25      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in water</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol<br>Pace Analytical Services - Indianapolis                               |         |       |        |       |    |                |                |           |      |
| n-Butanol   | <800    | ug/L  | 5000   | 800   | 1  |                | 04/13/20 20:18 | 71-36-3   |      |
| Ethanol   | <1000   | ug/L  | 5000   | 1000  | 1  |                | 04/13/20 20:18 | 64-17-5   |      |
| Methanol  | <400    | ug/L  | 5000   | 400   | 1  |                | 04/13/20 20:18 | 67-56-1   |      |
| <b>6020 MET ICPMS</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis           |         |       |        |       |    |                |                |           |      |
| Arsenic   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 19:30 | 7440-38-2 |      |
| Barium  | <100    | ug/L  | 100    | 100   | 1  | 04/13/20 08:44 | 04/15/20 19:30 | 7440-39-3 |      |
| Cadmium   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 08:44 | 04/15/20 19:30 | 7440-43-9 |      |
| Chromium  | <10.0   | ug/L  | 10.0   | 10.0  | 1  | 04/13/20 08:44 | 04/15/20 19:30 | 7440-47-3 |      |
| Lead  | <3.0    | ug/L  | 3.0    | 3.0   | 1  | 04/13/20 08:44 | 04/15/20 19:30 | 7439-92-1 |      |
| Selenium  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 19:30 | 7782-49-2 |      |
| Silver  | <0.20   | ug/L  | 0.25   | 0.20  | 1  | 04/13/20 08:44 | 04/15/20 19:30 | 7440-22-4 |      |
| <b>7470 Mercury</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7470      Preparation Method: EPA 7470<br>Pace Analytical Services - Indianapolis            |         |       |        |       |    |                |                |           |      |
| Mercury   | <0.079  | ug/L  | 0.20   | 0.079 | 1  | 04/16/20 10:33 | 04/17/20 11:14 | 7439-97-6 |      |
| <b>8270 PAH by 3511</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM 40E      Preparation Method: EPA 3511<br>Pace Analytical Services - Indianapolis |         |       |        |       |    |                |                |           |      |
| Acenaphthene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:13 | 83-32-9   |      |
| Acenaphthylene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:13 | 208-96-8  |      |
| Anthracene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:13 | 120-12-7  |      |
| Benzo(a)anthracene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 22:13 | 56-55-3   |      |
| Benzo(a)pyrene  | <0.20   | ug/L  | 0.20   | 0.20  | 1  | 04/13/20 13:00 | 04/13/20 22:13 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 22:13 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 22:13 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 22:13 | 207-08-9  |      |
| Chrysene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 22:13 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/13/20 13:00 | 04/13/20 22:13 | 53-70-3   |      |
| Fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 22:13 | 206-44-0  |      |
| Fluorene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:13 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/13/20 13:00 | 04/13/20 22:13 | 193-39-5  |      |
| 2-Methylnaphthalene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:13 | 91-57-6   |      |
| Naphthalene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:13 | 91-20-3   |      |
| Phenanthrene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/13/20 13:00 | 04/13/20 22:13 | 85-01-8   |      |
| Pyrene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:13 | 129-00-0  |      |
| <b>Surrogates</b>   |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)  | 94      | %     | 48-123 |       | 1  | 04/13/20 13:00 | 04/13/20 22:13 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 109     | %     | 68-138 |       | 1  | 04/13/20 13:00 | 04/13/20 22:13 | 1718-51-0 |      |
| <b>8260 MSV Low Level</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis  |         |       |        |       |    |                |                |           |      |
| Acetone   | <50.0   | ug/L  | 50.0   | 50.0  | 1  |                | 04/15/20 01:54 | 67-64-1   |      |
| Acrylonitrile   | <2.0    | ug/L  | 2.0    | 2.0   | 1  |                | 04/15/20 01:54 | 107-13-1  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-107**      **Lab ID: 50254306007**      Collected: 04/08/20 18:08      Received: 04/10/20 08:25      Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| tert-Amylmethyl ether                   | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:54 | 994-05-8   | N2   |
| Benzene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:54 | 71-43-2    |      |
| Bromobenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:54 | 108-86-1   |      |
| Bromochloromethane                      | <0.59   | ug/L  | 1.0  | 0.59 | 1  |          | 04/15/20 01:54 | 74-97-5    |      |
| Bromodichloromethane                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:54 | 75-27-4    |      |
| Bromoform                               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:54 | 75-25-2    |      |
| Bromomethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:54 | 74-83-9    |      |
| 2-Butanone (MEK)                        | <25.0   | ug/L  | 25.0 | 25.0 | 1  |          | 04/15/20 01:54 | 78-93-3    |      |
| tert-Butyl Alcohol                      | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/15/20 01:54 | 75-65-0    |      |
| n-Butylbenzene                          | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:54 | 104-51-8   |      |
| sec-Butylbenzene                        | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:54 | 135-98-8   |      |
| tert-Butylbenzene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:54 | 98-06-6    |      |
| Carbon disulfide                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:54 | 75-15-0    |      |
| Carbon tetrachloride                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:54 | 56-23-5    |      |
| Chlorobenzene                           | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:54 | 108-90-7   |      |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:54 | 75-00-3    |      |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:54 | 67-66-3    |      |
| Chloromethane                           | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:54 | 74-87-3    |      |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 04/15/20 01:54 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 04/15/20 01:54 | 96-12-8    |      |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:54 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 04/15/20 01:54 | 106-93-4   |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:54 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:54 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:54 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:54 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.82   | ug/L  | 100  | 0.82 | 1  |          | 04/15/20 01:54 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:54 | 75-71-8    |      |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:54 | 75-34-3    |      |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:54 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:54 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:54 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:54 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:54 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 04/15/20 01:54 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 04/15/20 01:54 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:54 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:54 | 108-20-3   | N2   |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:54 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:54 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:54 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/15/20 01:54 | 591-78-6   |      |
| Iodomethane                             | <0.45   | ug/L  | 5.0  | 0.45 | 1  |          | 04/15/20 01:54 | 74-88-4    |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:54 | 98-82-8    |      |
| p-Isopropyltoluene                      | <0.28   | ug/L  | 1.0  | 0.28 | 1  |          | 04/15/20 01:54 | 99-87-6    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-107**      **Lab ID: 50254306007**      Collected: 04/08/20 18:08      Received: 04/10/20 08:25      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 01:54 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0   | 5.0  | 1  |          | 04/15/20 01:54 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0   | 50.0 | 1  |          | 04/15/20 01:54 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 01:54 | 1634-04-4   |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 01:54 | 91-20-3     |      |
| n-Propylbenzene                         | <100    | ug/L  | 100    | 100  | 1  |          | 04/15/20 01:54 | 103-65-1    |      |
| Styrene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:54 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:54 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:54 | 79-34-5     |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:54 | 127-18-4    |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0   | 90.0 | 1  |          | 04/15/20 01:54 | 109-99-9    | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:54 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 01:54 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 01:54 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:54 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:54 | 79-00-5     |      |
| Trichloroethene                         | 18.5    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:54 | 79-01-6     |      |
| Trichlorofluoromethane                  | 4.5     | ug/L  | 2.0    | 1.0  | 1  |          | 04/15/20 01:54 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:54 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 01:54 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/15/20 01:54 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/15/20 01:54 | 108-67-8    |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:54 | 75-01-4     |      |
| m&p-Xylene                              | <0.16   | ug/L  | 2.0    | 0.16 | 1  |          | 04/15/20 01:54 | 179601-23-1 |      |
| o-Xylene                                | <0.39   | ug/L  | 1.0    | 0.39 | 1  |          | 04/15/20 01:54 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 108     | %     | 85-116 |      | 1  |          | 04/15/20 01:54 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 99      | %     | 75-120 |      | 1  |          | 04/15/20 01:54 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 97      | %     | 83-111 |      | 1  |          | 04/15/20 01:54 | 2037-26-5   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-108**      **Lab ID: 50254306008**      Collected: 04/08/20 18:40      Received: 04/10/20 08:25      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in water</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol<br>Pace Analytical Services - Indianapolis                             |         |       |        |       |    |                |                |           |      |
| n-Butanol   | <800    | ug/L  | 5000   | 800   | 1  |                | 04/13/20 20:27 | 71-36-3   |      |
| Ethanol   | <1000   | ug/L  | 5000   | 1000  | 1  |                | 04/13/20 20:27 | 64-17-5   |      |
| Methanol  | <400    | ug/L  | 5000   | 400   | 1  |                | 04/13/20 20:27 | 67-56-1   |      |
| <b>6020 MET ICPMS</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020    Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis           |         |       |        |       |    |                |                |           |      |
| Arsenic   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 19:35 | 7440-38-2 |      |
| Barium  | <100    | ug/L  | 100    | 100   | 1  | 04/13/20 08:44 | 04/15/20 19:35 | 7440-39-3 |      |
| Cadmium   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 08:44 | 04/15/20 19:35 | 7440-43-9 |      |
| Chromium  | <10.0   | ug/L  | 10.0   | 10.0  | 1  | 04/13/20 08:44 | 04/15/20 19:35 | 7440-47-3 |      |
| Lead  | <3.0    | ug/L  | 3.0    | 3.0   | 1  | 04/13/20 08:44 | 04/15/20 19:35 | 7439-92-1 |      |
| Selenium  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 19:35 | 7782-49-2 |      |
| Silver  | <0.20   | ug/L  | 0.25   | 0.20  | 1  | 04/13/20 08:44 | 04/15/20 19:35 | 7440-22-4 |      |
| <b>7470 Mercury</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7470    Preparation Method: EPA 7470<br>Pace Analytical Services - Indianapolis            |         |       |        |       |    |                |                |           |      |
| Mercury   | <0.079  | ug/L  | 0.20   | 0.079 | 1  | 04/16/20 10:33 | 04/17/20 11:16 | 7439-97-6 |      |
| <b>8270 PAH by 3511</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM 40E    Preparation Method: EPA 3511<br>Pace Analytical Services - Indianapolis |         |       |        |       |    |                |                |           |      |
| Acenaphthene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:23 | 83-32-9   |      |
| Acenaphthylene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:23 | 208-96-8  |      |
| Anthracene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:23 | 120-12-7  |      |
| Benzo(a)anthracene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 22:23 | 56-55-3   |      |
| Benzo(a)pyrene  | <0.20   | ug/L  | 0.20   | 0.20  | 1  | 04/13/20 13:00 | 04/13/20 22:23 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 22:23 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 22:23 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 22:23 | 207-08-9  |      |
| Chrysene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 22:23 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/13/20 13:00 | 04/13/20 22:23 | 53-70-3   |      |
| Fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 22:23 | 206-44-0  |      |
| Fluorene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:23 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/13/20 13:00 | 04/13/20 22:23 | 193-39-5  |      |
| 2-Methylnaphthalene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:23 | 91-57-6   |      |
| Naphthalene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:23 | 91-20-3   |      |
| Phenanthrene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/13/20 13:00 | 04/13/20 22:23 | 85-01-8   |      |
| Pyrene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:23 | 129-00-0  |      |
| <b>Surrogates</b>   |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)  | 90      | %     | 48-123 |       | 1  | 04/13/20 13:00 | 04/13/20 22:23 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 106     | %     | 68-138 |       | 1  | 04/13/20 13:00 | 04/13/20 22:23 | 1718-51-0 |      |
| <b>8260 MSV Low Level</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis                                      |         |       |        |       |    |                |                |           |      |
| Acetone   | <50.0   | ug/L  | 50.0   | 50.0  | 1  |                | 04/15/20 02:27 | 67-64-1   |      |
| Acrylonitrile   | <2.0    | ug/L  | 2.0    | 2.0   | 1  |                | 04/15/20 02:27 | 107-13-1  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-108**      **Lab ID: 50254306008**      Collected: 04/08/20 18:40      Received: 04/10/20 08:25      Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| tert-Amylmethyl ether                   | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:27 | 994-05-8   | N2   |
| Benzene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:27 | 71-43-2    |      |
| Bromobenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:27 | 108-86-1   |      |
| Bromochloromethane                      | <0.59   | ug/L  | 1.0  | 0.59 | 1  |          | 04/15/20 02:27 | 74-97-5    |      |
| Bromodichloromethane                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:27 | 75-27-4    |      |
| Bromoform                               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:27 | 75-25-2    |      |
| Bromomethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:27 | 74-83-9    |      |
| 2-Butanone (MEK)                        | <25.0   | ug/L  | 25.0 | 25.0 | 1  |          | 04/15/20 02:27 | 78-93-3    |      |
| tert-Butyl Alcohol                      | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/15/20 02:27 | 75-65-0    |      |
| n-Butylbenzene                          | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:27 | 104-51-8   |      |
| sec-Butylbenzene                        | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:27 | 135-98-8   |      |
| tert-Butylbenzene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:27 | 98-06-6    |      |
| Carbon disulfide                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:27 | 75-15-0    |      |
| Carbon tetrachloride                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:27 | 56-23-5    |      |
| Chlorobenzene                           | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:27 | 108-90-7   |      |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:27 | 75-00-3    |      |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:27 | 67-66-3    |      |
| Chloromethane                           | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:27 | 74-87-3    |      |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 04/15/20 02:27 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 04/15/20 02:27 | 96-12-8    |      |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:27 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 04/15/20 02:27 | 106-93-4   |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:27 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:27 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:27 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:27 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.82   | ug/L  | 100  | 0.82 | 1  |          | 04/15/20 02:27 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:27 | 75-71-8    |      |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:27 | 75-34-3    |      |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:27 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:27 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:27 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:27 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:27 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 04/15/20 02:27 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 04/15/20 02:27 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:27 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:27 | 108-20-3   | N2   |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:27 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:27 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:27 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/15/20 02:27 | 591-78-6   |      |
| Iodomethane                             | <0.45   | ug/L  | 5.0  | 0.45 | 1  |          | 04/15/20 02:27 | 74-88-4    |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:27 | 98-82-8    |      |
| p-Isopropyltoluene                      | <0.28   | ug/L  | 1.0  | 0.28 | 1  |          | 04/15/20 02:27 | 99-87-6    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-108**      **Lab ID: 50254306008**      Collected: 04/08/20 18:40      Received: 04/10/20 08:25      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 02:27 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0   | 5.0  | 1  |          | 04/15/20 02:27 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0   | 50.0 | 1  |          | 04/15/20 02:27 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 02:27 | 1634-04-4   |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 02:27 | 91-20-3     |      |
| n-Propylbenzene                         | <100    | ug/L  | 100    | 100  | 1  |          | 04/15/20 02:27 | 103-65-1    |      |
| Styrene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 02:27 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 02:27 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 02:27 | 79-34-5     |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 02:27 | 127-18-4    |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0   | 90.0 | 1  |          | 04/15/20 02:27 | 109-99-9    | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 02:27 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 02:27 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 02:27 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 02:27 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 02:27 | 79-00-5     |      |
| Trichloroethene                         | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 02:27 | 79-01-6     |      |
| Trichlorofluoromethane                  | 1.5J    | ug/L  | 2.0    | 1.0  | 1  |          | 04/15/20 02:27 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 02:27 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 02:27 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/15/20 02:27 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/15/20 02:27 | 108-67-8    |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 02:27 | 75-01-4     |      |
| m&p-Xylene                              | <0.16   | ug/L  | 2.0    | 0.16 | 1  |          | 04/15/20 02:27 | 179601-23-1 |      |
| o-Xylene                                | <0.39   | ug/L  | 1.0    | 0.39 | 1  |          | 04/15/20 02:27 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 111     | %     | 85-116 |      | 1  |          | 04/15/20 02:27 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 99      | %     | 75-120 |      | 1  |          | 04/15/20 02:27 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 98      | %     | 83-111 |      | 1  |          | 04/15/20 02:27 | 2037-26-5   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-109**      **Lab ID: 50254306009**      Collected: 04/08/20 19:14      Received: 04/10/20 08:25      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in water</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol<br>Pace Analytical Services - Indianapolis                               |         |       |        |       |    |                |                |           |      |
| n-Butanol   | <800    | ug/L  | 5000   | 800   | 1  |                | 04/13/20 20:37 | 71-36-3   |      |
| Ethanol   | <1000   | ug/L  | 5000   | 1000  | 1  |                | 04/13/20 20:37 | 64-17-5   |      |
| Methanol  | <400    | ug/L  | 5000   | 400   | 1  |                | 04/13/20 20:37 | 67-56-1   |      |
| <b>6020 MET ICPMS</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis           |         |       |        |       |    |                |                |           |      |
| Arsenic   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 19:39 | 7440-38-2 |      |
| Barium  | <100    | ug/L  | 100    | 100   | 1  | 04/13/20 08:44 | 04/15/20 19:39 | 7440-39-3 |      |
| Cadmium   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 08:44 | 04/15/20 19:39 | 7440-43-9 |      |
| Chromium  | <10.0   | ug/L  | 10.0   | 10.0  | 1  | 04/13/20 08:44 | 04/15/20 19:39 | 7440-47-3 |      |
| Lead  | <3.0    | ug/L  | 3.0    | 3.0   | 1  | 04/13/20 08:44 | 04/15/20 19:39 | 7439-92-1 |      |
| Selenium  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 19:39 | 7782-49-2 |      |
| Silver  | <0.20   | ug/L  | 0.25   | 0.20  | 1  | 04/13/20 08:44 | 04/15/20 19:39 | 7440-22-4 |      |
| <b>7470 Mercury</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7470      Preparation Method: EPA 7470<br>Pace Analytical Services - Indianapolis            |         |       |        |       |    |                |                |           |      |
| Mercury   | <0.079  | ug/L  | 0.20   | 0.079 | 1  | 04/16/20 10:33 | 04/17/20 11:19 | 7439-97-6 |      |
| <b>8270 PAH by 3511</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM 40E      Preparation Method: EPA 3511<br>Pace Analytical Services - Indianapolis |         |       |        |       |    |                |                |           |      |
| Acenaphthene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:34 | 83-32-9   |      |
| Acenaphthylene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:34 | 208-96-8  |      |
| Anthracene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:34 | 120-12-7  |      |
| Benzo(a)anthracene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 22:34 | 56-55-3   |      |
| Benzo(a)pyrene  | <0.20   | ug/L  | 0.20   | 0.20  | 1  | 04/13/20 13:00 | 04/13/20 22:34 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 22:34 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 22:34 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 22:34 | 207-08-9  |      |
| Chrysene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 22:34 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/13/20 13:00 | 04/13/20 22:34 | 53-70-3   |      |
| Fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 22:34 | 206-44-0  |      |
| Fluorene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:34 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/13/20 13:00 | 04/13/20 22:34 | 193-39-5  |      |
| 2-Methylnaphthalene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:34 | 91-57-6   |      |
| Naphthalene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:34 | 91-20-3   |      |
| Phenanthrene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/13/20 13:00 | 04/13/20 22:34 | 85-01-8   |      |
| Pyrene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:34 | 129-00-0  |      |
| <b>Surrogates</b>   |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)  | 87      | %     | 48-123 |       | 1  | 04/13/20 13:00 | 04/13/20 22:34 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 104     | %     | 68-138 |       | 1  | 04/13/20 13:00 | 04/13/20 22:34 | 1718-51-0 |      |
| <b>8260 MSV Low Level</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis  |         |       |        |       |    |                |                |           |      |
| Acetone   | <50.0   | ug/L  | 50.0   | 50.0  | 1  |                | 04/15/20 01:05 | 67-64-1   |      |
| Acrylonitrile   | <2.0    | ug/L  | 2.0    | 2.0   | 1  |                | 04/15/20 01:05 | 107-13-1  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-109**      **Lab ID: 50254306009**      Collected: 04/08/20 19:14      Received: 04/10/20 08:25      Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| tert-Amylmethyl ether                   | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:05 | 994-05-8   | N2   |
| Benzene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:05 | 71-43-2    |      |
| Bromobenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:05 | 108-86-1   |      |
| Bromochloromethane                      | <0.22   | ug/L  | 1.0  | 0.22 | 1  |          | 04/15/20 01:05 | 74-97-5    |      |
| Bromodichloromethane                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:05 | 75-27-4    |      |
| Bromoform                               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:05 | 75-25-2    |      |
| Bromomethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:05 | 74-83-9    |      |
| 2-Butanone (MEK)                        | <25.0   | ug/L  | 25.0 | 25.0 | 1  |          | 04/15/20 01:05 | 78-93-3    |      |
| tert-Butyl Alcohol                      | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/15/20 01:05 | 75-65-0    |      |
| n-Butylbenzene                          | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:05 | 104-51-8   |      |
| sec-Butylbenzene                        | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:05 | 135-98-8   |      |
| tert-Butylbenzene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:05 | 98-06-6    |      |
| Carbon disulfide                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:05 | 75-15-0    |      |
| Carbon tetrachloride                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:05 | 56-23-5    |      |
| Chlorobenzene                           | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:05 | 108-90-7   |      |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:05 | 75-00-3    |      |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:05 | 67-66-3    |      |
| Chloromethane                           | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:05 | 74-87-3    |      |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 04/15/20 01:05 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 04/15/20 01:05 | 96-12-8    |      |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:05 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 04/15/20 01:05 | 106-93-4   |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:05 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:05 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:05 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:05 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.40   | ug/L  | 100  | 0.40 | 1  |          | 04/15/20 01:05 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:05 | 75-71-8    |      |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:05 | 75-34-3    |      |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:05 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:05 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:05 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:05 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:05 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 04/15/20 01:05 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 04/15/20 01:05 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:05 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:05 | 108-20-3   | N2   |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:05 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:05 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:05 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/15/20 01:05 | 591-78-6   |      |
| Iodomethane                             | <0.51   | ug/L  | 5.0  | 0.51 | 1  |          | 04/15/20 01:05 | 74-88-4    |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:05 | 98-82-8    |      |
| p-Isopropyltoluene                      | <0.11   | ug/L  | 1.0  | 0.11 | 1  |          | 04/15/20 01:05 | 99-87-6    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-109**      **Lab ID: 50254306009**      Collected: 04/08/20 19:14      Received: 04/10/20 08:25      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 01:05 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0   | 5.0  | 1  |          | 04/15/20 01:05 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0   | 50.0 | 1  |          | 04/15/20 01:05 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 01:05 | 1634-04-4   |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 01:05 | 91-20-3     |      |
| n-Propylbenzene                         | <100    | ug/L  | 100    | 100  | 1  |          | 04/15/20 01:05 | 103-65-1    |      |
| Styrene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:05 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:05 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:05 | 79-34-5     |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:05 | 127-18-4    |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0   | 90.0 | 1  |          | 04/15/20 01:05 | 109-99-9    | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:05 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 01:05 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 01:05 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:05 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:05 | 79-00-5     |      |
| Trichloroethene                         | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:05 | 79-01-6     |      |
| Trichlorofluoromethane                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 04/15/20 01:05 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:05 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 01:05 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/15/20 01:05 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/15/20 01:05 | 108-67-8    |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:05 | 75-01-4     |      |
| m&p-Xylene                              | <0.24   | ug/L  | 2.0    | 0.24 | 1  |          | 04/15/20 01:05 | 179601-23-1 |      |
| o-Xylene                                | <0.16   | ug/L  | 1.0    | 0.16 | 1  |          | 04/15/20 01:05 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 110     | %     | 85-116 |      | 1  |          | 04/15/20 01:05 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 99      | %     | 75-120 |      | 1  |          | 04/15/20 01:05 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 97      | %     | 83-111 |      | 1  |          | 04/15/20 01:05 | 2037-26-5   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: DUP-1**      **Lab ID: 50254306010**      Collected: 04/08/20 00:00      Received: 04/10/20 08:25      Matrix: Water

| Parameters   | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in water</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol<br>Pace Analytical Services - Indianapolis                          |         |       |        |       |    |                |                |           |      |
| n-Butanol  | <800    | ug/L  | 5000   | 800   | 1  |                | 04/13/20 20:46 | 71-36-3   |      |
| Ethanol  | <1000   | ug/L  | 5000   | 1000  | 1  |                | 04/13/20 20:46 | 64-17-5   |      |
| Methanol   | <400    | ug/L  | 5000   | 400   | 1  |                | 04/13/20 20:46 | 67-56-1   |      |
| <b>6020 MET ICPMS</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis           |         |       |        |       |    |                |                |           |      |
| Arsenic  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 19:44 | 7440-38-2 |      |
| Barium   | <100    | ug/L  | 100    | 100   | 1  | 04/13/20 08:44 | 04/15/20 19:44 | 7440-39-3 |      |
| Cadmium  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 08:44 | 04/15/20 19:44 | 7440-43-9 |      |
| Chromium   | <10.0   | ug/L  | 10.0   | 10.0  | 1  | 04/13/20 08:44 | 04/15/20 19:44 | 7440-47-3 |      |
| Lead   | <3.0    | ug/L  | 3.0    | 3.0   | 1  | 04/13/20 08:44 | 04/15/20 19:44 | 7439-92-1 |      |
| Selenium   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 19:44 | 7782-49-2 |      |
| Silver   | <0.20   | ug/L  | 0.25   | 0.20  | 1  | 04/13/20 08:44 | 04/15/20 19:44 | 7440-22-4 |      |
| <b>7470 Mercury</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7470 Preparation Method: EPA 7470<br>Pace Analytical Services - Indianapolis            |         |       |        |       |    |                |                |           |      |
| Mercury  | <0.079  | ug/L  | 0.20   | 0.079 | 1  | 04/16/20 10:33 | 04/17/20 11:28 | 7439-97-6 |      |
| <b>8270 PAH by 3511</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM 40E Preparation Method: EPA 3511<br>Pace Analytical Services - Indianapolis |         |       |        |       |    |                |                |           |      |
| Acenaphthene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:45 | 83-32-9   |      |
| Acenaphthylene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:45 | 208-96-8  |      |
| Anthracene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:45 | 120-12-7  |      |
| Benzo(a)anthracene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 22:45 | 56-55-3   |      |
| Benzo(a)pyrene   | <0.20   | ug/L  | 0.20   | 0.20  | 1  | 04/13/20 13:00 | 04/13/20 22:45 | 50-32-8   |      |
| Benzo(b)fluoranthene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 22:45 | 205-99-2  |      |
| Benzo(g,h,i)perylene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 22:45 | 191-24-2  |      |
| Benzo(k)fluoranthene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 22:45 | 207-08-9  |      |
| Chrysene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 22:45 | 218-01-9  |      |
| Dibenz(a,h)anthracene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/13/20 13:00 | 04/13/20 22:45 | 53-70-3   |      |
| Fluoranthene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 13:00 | 04/13/20 22:45 | 206-44-0  |      |
| Fluorene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:45 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/13/20 13:00 | 04/13/20 22:45 | 193-39-5  |      |
| 2-Methylnaphthalene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:45 | 91-57-6   |      |
| Naphthalene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:45 | 91-20-3   |      |
| Phenanthrene   | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/13/20 13:00 | 04/13/20 22:45 | 85-01-8   |      |
| Pyrene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 13:00 | 04/13/20 22:45 | 129-00-0  |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)   | 93      | %     | 48-123 |       | 1  | 04/13/20 13:00 | 04/13/20 22:45 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 104     | %     | 68-138 |       | 1  | 04/13/20 13:00 | 04/13/20 22:45 | 1718-51-0 |      |
| <b>8260 MSV Low Level</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis                                   |         |       |        |       |    |                |                |           |      |
| Acetone  | <50.0   | ug/L  | 50.0   | 50.0  | 1  |                | 04/15/20 01:38 | 67-64-1   |      |
| Acrylonitrile  | <2.0    | ug/L  | 2.0    | 2.0   | 1  |                | 04/15/20 01:38 | 107-13-1  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: DUP-1**      **Lab ID: 50254306010**      Collected: 04/08/20 00:00      Received: 04/10/20 08:25      Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| tert-Amylmethyl ether                   | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:38 | 994-05-8   | N2   |
| Benzene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:38 | 71-43-2    |      |
| Bromobenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:38 | 108-86-1   |      |
| Bromochloromethane                      | <0.22   | ug/L  | 1.0  | 0.22 | 1  |          | 04/15/20 01:38 | 74-97-5    |      |
| Bromodichloromethane                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:38 | 75-27-4    |      |
| Bromoform                               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:38 | 75-25-2    |      |
| Bromomethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:38 | 74-83-9    |      |
| 2-Butanone (MEK)                        | <25.0   | ug/L  | 25.0 | 25.0 | 1  |          | 04/15/20 01:38 | 78-93-3    |      |
| tert-Butyl Alcohol                      | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/15/20 01:38 | 75-65-0    |      |
| n-Butylbenzene                          | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:38 | 104-51-8   |      |
| sec-Butylbenzene                        | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:38 | 135-98-8   |      |
| tert-Butylbenzene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:38 | 98-06-6    |      |
| Carbon disulfide                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:38 | 75-15-0    |      |
| Carbon tetrachloride                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:38 | 56-23-5    |      |
| Chlorobenzene                           | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:38 | 108-90-7   |      |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:38 | 75-00-3    |      |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:38 | 67-66-3    |      |
| Chloromethane                           | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:38 | 74-87-3    |      |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 04/15/20 01:38 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 04/15/20 01:38 | 96-12-8    |      |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:38 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 04/15/20 01:38 | 106-93-4   |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:38 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:38 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:38 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:38 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.40   | ug/L  | 100  | 0.40 | 1  |          | 04/15/20 01:38 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:38 | 75-71-8    |      |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:38 | 75-34-3    |      |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:38 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:38 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:38 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:38 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:38 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 04/15/20 01:38 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 04/15/20 01:38 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:38 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:38 | 108-20-3   | N2   |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 01:38 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:38 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:38 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/15/20 01:38 | 591-78-6   |      |
| Iodomethane                             | <0.51   | ug/L  | 5.0  | 0.51 | 1  |          | 04/15/20 01:38 | 74-88-4    |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 01:38 | 98-82-8    |      |
| p-Isopropyltoluene                      | <0.11   | ug/L  | 1.0  | 0.11 | 1  |          | 04/15/20 01:38 | 99-87-6    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: DUP-1**      **Lab ID: 50254306010**      Collected: 04/08/20 00:00      Received: 04/10/20 08:25      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 01:38 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0   | 5.0  | 1  |          | 04/15/20 01:38 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0   | 50.0 | 1  |          | 04/15/20 01:38 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 01:38 | 1634-04-4   |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 01:38 | 91-20-3     |      |
| n-Propylbenzene                         | <100    | ug/L  | 100    | 100  | 1  |          | 04/15/20 01:38 | 103-65-1    |      |
| Styrene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:38 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:38 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:38 | 79-34-5     |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:38 | 127-18-4    |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0   | 90.0 | 1  |          | 04/15/20 01:38 | 109-99-9    | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:38 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 01:38 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 01:38 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:38 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:38 | 79-00-5     |      |
| Trichloroethene                         | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:38 | 79-01-6     |      |
| Trichlorofluoromethane                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 04/15/20 01:38 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:38 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 01:38 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/15/20 01:38 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/15/20 01:38 | 108-67-8    |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 01:38 | 75-01-4     |      |
| m&p-Xylene                              | <0.24   | ug/L  | 2.0    | 0.24 | 1  |          | 04/15/20 01:38 | 179601-23-1 |      |
| o-Xylene                                | <0.16   | ug/L  | 1.0    | 0.16 | 1  |          | 04/15/20 01:38 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 110     | %     | 85-116 |      | 1  |          | 04/15/20 01:38 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 99      | %     | 75-120 |      | 1  |          | 04/15/20 01:38 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 97      | %     | 83-111 |      | 1  |          | 04/15/20 01:38 | 2037-26-5   |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-110**      **Lab ID: 50254306011**      Collected: 04/09/20 09:07      Received: 04/10/20 08:25      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in water</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol<br>Pace Analytical Services - Indianapolis                             |         |       |        |       |    |                |                |           |      |
| n-Butanol   | <800    | ug/L  | 5000   | 800   | 1  |                | 04/13/20 21:05 | 71-36-3   |      |
| Ethanol   | <1000   | ug/L  | 5000   | 1000  | 1  |                | 04/13/20 21:05 | 64-17-5   |      |
| Methanol  | <400    | ug/L  | 5000   | 400   | 1  |                | 04/13/20 21:05 | 67-56-1   |      |
| <b>6020 MET ICPMS</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020    Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis           |         |       |        |       |    |                |                |           |      |
| Arsenic   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 19:48 | 7440-38-2 |      |
| Barium  | <100    | ug/L  | 100    | 100   | 1  | 04/13/20 08:44 | 04/15/20 19:48 | 7440-39-3 |      |
| Cadmium   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 08:44 | 04/15/20 19:48 | 7440-43-9 |      |
| Chromium  | <10.0   | ug/L  | 10.0   | 10.0  | 1  | 04/13/20 08:44 | 04/15/20 19:48 | 7440-47-3 |      |
| Lead  | <3.0    | ug/L  | 3.0    | 3.0   | 1  | 04/13/20 08:44 | 04/15/20 19:48 | 7439-92-1 |      |
| Selenium  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 19:48 | 7782-49-2 |      |
| Silver  | <0.20   | ug/L  | 0.25   | 0.20  | 1  | 04/13/20 08:44 | 04/15/20 19:48 | 7440-22-4 |      |
| <b>7470 Mercury</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7470    Preparation Method: EPA 7470<br>Pace Analytical Services - Indianapolis            |         |       |        |       |    |                |                |           |      |
| Mercury   | <0.079  | ug/L  | 0.20   | 0.079 | 1  | 04/16/20 10:33 | 04/17/20 11:31 | 7439-97-6 |      |
| <b>8270 PAH by 3511</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM 40E    Preparation Method: EPA 3511<br>Pace Analytical Services - Indianapolis |         |       |        |       |    |                |                |           |      |
| Acenaphthene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 17:42 | 83-32-9   |      |
| Acenaphthylene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 17:42 | 208-96-8  |      |
| Anthracene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 17:42 | 120-12-7  |      |
| Benzo(a)anthracene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 17:42 | 56-55-3   |      |
| Benzo(a)pyrene  | <0.20   | ug/L  | 0.20   | 0.20  | 1  | 04/15/20 11:20 | 04/15/20 17:42 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 17:42 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 17:42 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 17:42 | 207-08-9  |      |
| Chrysene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 17:42 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/15/20 11:20 | 04/15/20 17:42 | 53-70-3   |      |
| Fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 17:42 | 206-44-0  |      |
| Fluorene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 17:42 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/15/20 11:20 | 04/15/20 17:42 | 193-39-5  |      |
| 2-Methylnaphthalene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 17:42 | 91-57-6   |      |
| Naphthalene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 17:42 | 91-20-3   |      |
| Phenanthrene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/15/20 11:20 | 04/15/20 17:42 | 85-01-8   |      |
| Pyrene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 17:42 | 129-00-0  |      |
| <b>Surrogates</b>   |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)  | 94      | %     | 48-123 |       | 1  | 04/15/20 11:20 | 04/15/20 17:42 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 103     | %     | 68-138 |       | 1  | 04/15/20 11:20 | 04/15/20 17:42 | 1718-51-0 |      |
| <b>8260 MSV Low Level</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis                                      |         |       |        |       |    |                |                |           |      |
| Acetone   | <50.0   | ug/L  | 50.0   | 50.0  | 1  |                | 04/15/20 02:10 | 67-64-1   |      |
| Acrylonitrile   | <2.0    | ug/L  | 2.0    | 2.0   | 1  |                | 04/15/20 02:10 | 107-13-1  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale

Pace Project No.: 50254306

Sample: **MW-110** Lab ID: **50254306011** Collected: 04/09/20 09:07 Received: 04/10/20 08:25 Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| tert-Amylmethyl ether                   | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:10 | 994-05-8   | N2   |
| Benzene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:10 | 71-43-2    |      |
| Bromobenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:10 | 108-86-1   |      |
| Bromochloromethane                      | <0.22   | ug/L  | 1.0  | 0.22 | 1  |          | 04/15/20 02:10 | 74-97-5    |      |
| Bromodichloromethane                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:10 | 75-27-4    |      |
| Bromoform                               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:10 | 75-25-2    |      |
| Bromomethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:10 | 74-83-9    |      |
| 2-Butanone (MEK)                        | <25.0   | ug/L  | 25.0 | 25.0 | 1  |          | 04/15/20 02:10 | 78-93-3    |      |
| tert-Butyl Alcohol                      | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/15/20 02:10 | 75-65-0    |      |
| n-Butylbenzene                          | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:10 | 104-51-8   |      |
| sec-Butylbenzene                        | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:10 | 135-98-8   |      |
| tert-Butylbenzene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:10 | 98-06-6    |      |
| Carbon disulfide                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:10 | 75-15-0    |      |
| Carbon tetrachloride                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:10 | 56-23-5    |      |
| Chlorobenzene                           | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:10 | 108-90-7   |      |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:10 | 75-00-3    |      |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:10 | 67-66-3    |      |
| Chloromethane                           | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:10 | 74-87-3    |      |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 04/15/20 02:10 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 04/15/20 02:10 | 96-12-8    |      |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:10 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 04/15/20 02:10 | 106-93-4   |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:10 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:10 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:10 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:10 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.40   | ug/L  | 100  | 0.40 | 1  |          | 04/15/20 02:10 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:10 | 75-71-8    |      |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:10 | 75-34-3    |      |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:10 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:10 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:10 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:10 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:10 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 04/15/20 02:10 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 04/15/20 02:10 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:10 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:10 | 108-20-3   | N2   |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:10 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:10 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:10 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/15/20 02:10 | 591-78-6   |      |
| Iodomethane                             | <0.51   | ug/L  | 5.0  | 0.51 | 1  |          | 04/15/20 02:10 | 74-88-4    |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:10 | 98-82-8    |      |
| p-Isopropyltoluene                      | <0.11   | ug/L  | 1.0  | 0.11 | 1  |          | 04/15/20 02:10 | 99-87-6    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-110**      **Lab ID: 50254306011**      Collected: 04/09/20 09:07      Received: 04/10/20 08:25      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 02:10 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0   | 5.0  | 1  |          | 04/15/20 02:10 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0   | 50.0 | 1  |          | 04/15/20 02:10 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 02:10 | 1634-04-4   |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 02:10 | 91-20-3     |      |
| n-Propylbenzene                         | <100    | ug/L  | 100    | 100  | 1  |          | 04/15/20 02:10 | 103-65-1    |      |
| Styrene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 02:10 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 02:10 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 02:10 | 79-34-5     |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 02:10 | 127-18-4    |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0   | 90.0 | 1  |          | 04/15/20 02:10 | 109-99-9    | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 02:10 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 02:10 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 02:10 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 02:10 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 02:10 | 79-00-5     |      |
| Trichloroethene                         | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 02:10 | 79-01-6     |      |
| Trichlorofluoromethane                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 04/15/20 02:10 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 02:10 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 02:10 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/15/20 02:10 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/15/20 02:10 | 108-67-8    |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 02:10 | 75-01-4     |      |
| m&p-Xylene                              | <0.24   | ug/L  | 2.0    | 0.24 | 1  |          | 04/15/20 02:10 | 179601-23-1 |      |
| o-Xylene                                | <0.16   | ug/L  | 1.0    | 0.16 | 1  |          | 04/15/20 02:10 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 109     | %     | 85-116 |      | 1  |          | 04/15/20 02:10 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 98      | %     | 75-120 |      | 1  |          | 04/15/20 02:10 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 98      | %     | 83-111 |      | 1  |          | 04/15/20 02:10 | 2037-26-5   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-111**      **Lab ID: 50254306012**      Collected: 04/09/20 09:38      Received: 04/10/20 08:25      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in water</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol<br>Pace Analytical Services - Indianapolis                               |         |       |        |       |    |                |                |           |      |
| n-Butanol   | <800    | ug/L  | 5000   | 800   | 1  |                | 04/13/20 22:29 | 71-36-3   |      |
| Ethanol   | <1000   | ug/L  | 5000   | 1000  | 1  |                | 04/13/20 22:29 | 64-17-5   |      |
| Methanol  | <400    | ug/L  | 5000   | 400   | 1  |                | 04/13/20 22:29 | 67-56-1   |      |
| <b>6020 MET ICPMS</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis           |         |       |        |       |    |                |                |           |      |
| Arsenic   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 19:53 | 7440-38-2 |      |
| Barium  | <100    | ug/L  | 100    | 100   | 1  | 04/13/20 08:44 | 04/15/20 19:53 | 7440-39-3 |      |
| Cadmium   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 08:44 | 04/15/20 19:53 | 7440-43-9 |      |
| Chromium  | <10.0   | ug/L  | 10.0   | 10.0  | 1  | 04/13/20 08:44 | 04/15/20 19:53 | 7440-47-3 |      |
| Lead  | <3.0    | ug/L  | 3.0    | 3.0   | 1  | 04/13/20 08:44 | 04/15/20 19:53 | 7439-92-1 |      |
| Selenium  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 19:53 | 7782-49-2 |      |
| Silver  | <0.20   | ug/L  | 0.25   | 0.20  | 1  | 04/13/20 08:44 | 04/15/20 19:53 | 7440-22-4 |      |
| <b>7470 Mercury</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7470      Preparation Method: EPA 7470<br>Pace Analytical Services - Indianapolis            |         |       |        |       |    |                |                |           |      |
| Mercury   | <0.079  | ug/L  | 0.20   | 0.079 | 1  | 04/16/20 10:33 | 04/17/20 11:33 | 7439-97-6 |      |
| <b>8270 PAH by 3511</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM 40E      Preparation Method: EPA 3511<br>Pace Analytical Services - Indianapolis |         |       |        |       |    |                |                |           |      |
| Acenaphthene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 17:52 | 83-32-9   |      |
| Acenaphthylene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 17:52 | 208-96-8  |      |
| Anthracene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 17:52 | 120-12-7  |      |
| Benzo(a)anthracene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 17:52 | 56-55-3   |      |
| Benzo(a)pyrene  | <0.20   | ug/L  | 0.20   | 0.20  | 1  | 04/15/20 11:20 | 04/15/20 17:52 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 17:52 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 17:52 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 17:52 | 207-08-9  |      |
| Chrysene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 17:52 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/15/20 11:20 | 04/15/20 17:52 | 53-70-3   |      |
| Fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 17:52 | 206-44-0  |      |
| Fluorene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 17:52 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/15/20 11:20 | 04/15/20 17:52 | 193-39-5  |      |
| 2-Methylnaphthalene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 17:52 | 91-57-6   |      |
| Naphthalene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 17:52 | 91-20-3   |      |
| Phenanthrene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/15/20 11:20 | 04/15/20 17:52 | 85-01-8   |      |
| Pyrene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 17:52 | 129-00-0  |      |
| <b>Surrogates</b>   |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)  | 94      | %     | 48-123 |       | 1  | 04/15/20 11:20 | 04/15/20 17:52 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 104     | %     | 68-138 |       | 1  | 04/15/20 11:20 | 04/15/20 17:52 | 1718-51-0 |      |
| <b>8260 MSV Low Level</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis  |         |       |        |       |    |                |                |           |      |
| Acetone   | <50.0   | ug/L  | 50.0   | 50.0  | 1  |                | 04/15/20 02:43 | 67-64-1   |      |
| Acrylonitrile   | <2.0    | ug/L  | 2.0    | 2.0   | 1  |                | 04/15/20 02:43 | 107-13-1  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale

Pace Project No.: 50254306

Sample: MW-111 Lab ID: 50254306012 Collected: 04/09/20 09:38 Received: 04/10/20 08:25 Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| tert-Amylmethyl ether                   | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:43 | 994-05-8   | N2   |
| Benzene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:43 | 71-43-2    |      |
| Bromobenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:43 | 108-86-1   |      |
| Bromochloromethane                      | <0.22   | ug/L  | 1.0  | 0.22 | 1  |          | 04/15/20 02:43 | 74-97-5    |      |
| Bromodichloromethane                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:43 | 75-27-4    |      |
| Bromoform                               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:43 | 75-25-2    |      |
| Bromomethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:43 | 74-83-9    |      |
| 2-Butanone (MEK)                        | <25.0   | ug/L  | 25.0 | 25.0 | 1  |          | 04/15/20 02:43 | 78-93-3    |      |
| tert-Butyl Alcohol                      | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/15/20 02:43 | 75-65-0    |      |
| n-Butylbenzene                          | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:43 | 104-51-8   |      |
| sec-Butylbenzene                        | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:43 | 135-98-8   |      |
| tert-Butylbenzene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:43 | 98-06-6    |      |
| Carbon disulfide                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:43 | 75-15-0    |      |
| Carbon tetrachloride                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:43 | 56-23-5    |      |
| Chlorobenzene                           | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:43 | 108-90-7   |      |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:43 | 75-00-3    |      |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:43 | 67-66-3    |      |
| Chloromethane                           | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:43 | 74-87-3    |      |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 04/15/20 02:43 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 04/15/20 02:43 | 96-12-8    |      |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:43 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 04/15/20 02:43 | 106-93-4   |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:43 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:43 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:43 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:43 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.40   | ug/L  | 100  | 0.40 | 1  |          | 04/15/20 02:43 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:43 | 75-71-8    |      |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:43 | 75-34-3    |      |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:43 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:43 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:43 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:43 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:43 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 04/15/20 02:43 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 04/15/20 02:43 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:43 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:43 | 108-20-3   | N2   |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 02:43 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:43 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:43 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/15/20 02:43 | 591-78-6   |      |
| Iodomethane                             | <0.51   | ug/L  | 5.0  | 0.51 | 1  |          | 04/15/20 02:43 | 74-88-4    |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 02:43 | 98-82-8    |      |
| p-Isopropyltoluene                      | <0.11   | ug/L  | 1.0  | 0.11 | 1  |          | 04/15/20 02:43 | 99-87-6    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-111**      **Lab ID: 50254306012**      Collected: 04/09/20 09:38      Received: 04/10/20 08:25      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 02:43 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0   | 5.0  | 1  |          | 04/15/20 02:43 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0   | 50.0 | 1  |          | 04/15/20 02:43 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 02:43 | 1634-04-4   |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 02:43 | 91-20-3     |      |
| n-Propylbenzene                         | <100    | ug/L  | 100    | 100  | 1  |          | 04/15/20 02:43 | 103-65-1    |      |
| Styrene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 02:43 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 02:43 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 02:43 | 79-34-5     |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 02:43 | 127-18-4    |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0   | 90.0 | 1  |          | 04/15/20 02:43 | 109-99-9    | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 02:43 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 02:43 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 02:43 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 02:43 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 02:43 | 79-00-5     |      |
| Trichloroethene                         | 2.7     | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 02:43 | 79-01-6     |      |
| Trichlorofluoromethane                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 04/15/20 02:43 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 02:43 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 02:43 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/15/20 02:43 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/15/20 02:43 | 108-67-8    |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 02:43 | 75-01-4     |      |
| m&p-Xylene                              | <0.24   | ug/L  | 2.0    | 0.24 | 1  |          | 04/15/20 02:43 | 179601-23-1 |      |
| o-Xylene                                | <0.16   | ug/L  | 1.0    | 0.16 | 1  |          | 04/15/20 02:43 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 112     | %     | 85-116 |      | 1  |          | 04/15/20 02:43 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 100     | %     | 75-120 |      | 1  |          | 04/15/20 02:43 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 98      | %     | 83-111 |      | 1  |          | 04/15/20 02:43 | 2037-26-5   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-112**      **Lab ID: 50254306013**      Collected: 04/09/20 10:09      Received: 04/10/20 08:25      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in water</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol<br>Pace Analytical Services - Indianapolis                               |         |       |        |       |    |                |                |           |      |
| n-Butanol   | <800    | ug/L  | 5000   | 800   | 1  |                | 04/13/20 22:38 | 71-36-3   |      |
| Ethanol   | <1000   | ug/L  | 5000   | 1000  | 1  |                | 04/13/20 22:38 | 64-17-5   |      |
| Methanol  | <400    | ug/L  | 5000   | 400   | 1  |                | 04/13/20 22:38 | 67-56-1   |      |
| <b>6020 MET ICPMS</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis           |         |       |        |       |    |                |                |           |      |
| Arsenic   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 19:57 | 7440-38-2 |      |
| Barium  | <100    | ug/L  | 100    | 100   | 1  | 04/13/20 08:44 | 04/15/20 19:57 | 7440-39-3 |      |
| Cadmium   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 08:44 | 04/15/20 19:57 | 7440-43-9 |      |
| Chromium  | <10.0   | ug/L  | 10.0   | 10.0  | 1  | 04/13/20 08:44 | 04/15/20 19:57 | 7440-47-3 |      |
| Lead  | <3.0    | ug/L  | 3.0    | 3.0   | 1  | 04/13/20 08:44 | 04/15/20 19:57 | 7439-92-1 |      |
| Selenium  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 19:57 | 7782-49-2 |      |
| Silver  | <0.20   | ug/L  | 0.25   | 0.20  | 1  | 04/13/20 08:44 | 04/15/20 19:57 | 7440-22-4 |      |
| <b>7470 Mercury</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7470      Preparation Method: EPA 7470<br>Pace Analytical Services - Indianapolis            |         |       |        |       |    |                |                |           |      |
| Mercury   | <0.079  | ug/L  | 0.20   | 0.079 | 1  | 04/16/20 10:33 | 04/17/20 11:36 | 7439-97-6 |      |
| <b>8270 PAH by 3511</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM 40E      Preparation Method: EPA 3511<br>Pace Analytical Services - Indianapolis |         |       |        |       |    |                |                |           |      |
| Acenaphthene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:03 | 83-32-9   |      |
| Acenaphthylene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:03 | 208-96-8  |      |
| Anthracene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:03 | 120-12-7  |      |
| Benzo(a)anthracene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 18:03 | 56-55-3   |      |
| Benzo(a)pyrene  | <0.20   | ug/L  | 0.20   | 0.20  | 1  | 04/15/20 11:20 | 04/15/20 18:03 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 18:03 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 18:03 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 18:03 | 207-08-9  |      |
| Chrysene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 18:03 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/15/20 11:20 | 04/15/20 18:03 | 53-70-3   |      |
| Fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 18:03 | 206-44-0  |      |
| Fluorene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:03 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/15/20 11:20 | 04/15/20 18:03 | 193-39-5  |      |
| 2-Methylnaphthalene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:03 | 91-57-6   |      |
| Naphthalene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:03 | 91-20-3   |      |
| Phenanthrene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/15/20 11:20 | 04/15/20 18:03 | 85-01-8   |      |
| Pyrene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:03 | 129-00-0  |      |
| <b>Surrogates</b>   |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)  | 96      | %     | 48-123 |       | 1  | 04/15/20 11:20 | 04/15/20 18:03 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 104     | %     | 68-138 |       | 1  | 04/15/20 11:20 | 04/15/20 18:03 | 1718-51-0 |      |
| <b>8260 MSV Low Level</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis  |         |       |        |       |    |                |                |           |      |
| Acetone   | <50.0   | ug/L  | 50.0   | 50.0  | 1  |                | 04/15/20 03:16 | 67-64-1   |      |
| Acrylonitrile   | <2.0    | ug/L  | 2.0    | 2.0   | 1  |                | 04/15/20 03:16 | 107-13-1  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-112**      **Lab ID: 50254306013**      Collected: 04/09/20 10:09      Received: 04/10/20 08:25      Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| tert-Amylmethyl ether                   | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 03:16 | 994-05-8   | N2   |
| Benzene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:16 | 71-43-2    |      |
| Bromobenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:16 | 108-86-1   |      |
| Bromochloromethane                      | <0.22   | ug/L  | 1.0  | 0.22 | 1  |          | 04/15/20 03:16 | 74-97-5    |      |
| Bromodichloromethane                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:16 | 75-27-4    |      |
| Bromoform                               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:16 | 75-25-2    |      |
| Bromomethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 03:16 | 74-83-9    |      |
| 2-Butanone (MEK)                        | <25.0   | ug/L  | 25.0 | 25.0 | 1  |          | 04/15/20 03:16 | 78-93-3    |      |
| tert-Butyl Alcohol                      | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/15/20 03:16 | 75-65-0    |      |
| n-Butylbenzene                          | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:16 | 104-51-8   |      |
| sec-Butylbenzene                        | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:16 | 135-98-8   |      |
| tert-Butylbenzene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:16 | 98-06-6    |      |
| Carbon disulfide                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 03:16 | 75-15-0    |      |
| Carbon tetrachloride                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:16 | 56-23-5    |      |
| Chlorobenzene                           | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:16 | 108-90-7   |      |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 03:16 | 75-00-3    |      |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:16 | 67-66-3    |      |
| Chloromethane                           | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 03:16 | 74-87-3    |      |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 04/15/20 03:16 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 04/15/20 03:16 | 96-12-8    |      |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 03:16 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 04/15/20 03:16 | 106-93-4   |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 03:16 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:16 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:16 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:16 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.40   | ug/L  | 100  | 0.40 | 1  |          | 04/15/20 03:16 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 03:16 | 75-71-8    |      |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:16 | 75-34-3    |      |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:16 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:16 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:16 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:16 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:16 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 04/15/20 03:16 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 04/15/20 03:16 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 03:16 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 03:16 | 108-20-3   | N2   |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:16 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 03:16 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 03:16 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/15/20 03:16 | 591-78-6   |      |
| Iodomethane                             | <0.51   | ug/L  | 5.0  | 0.51 | 1  |          | 04/15/20 03:16 | 74-88-4    |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 03:16 | 98-82-8    |      |
| p-Isopropyltoluene                      | <0.11   | ug/L  | 1.0  | 0.11 | 1  |          | 04/15/20 03:16 | 99-87-6    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale

Pace Project No.: 50254306

**Sample: MW-112**      **Lab ID: 50254306013**      Collected: 04/09/20 10:09      Received: 04/10/20 08:25      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 03:16 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0   | 5.0  | 1  |          | 04/15/20 03:16 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0   | 50.0 | 1  |          | 04/15/20 03:16 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 03:16 | 1634-04-4   |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 03:16 | 91-20-3     |      |
| n-Propylbenzene                         | <100    | ug/L  | 100    | 100  | 1  |          | 04/15/20 03:16 | 103-65-1    |      |
| Styrene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 03:16 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 03:16 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 03:16 | 79-34-5     |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 03:16 | 127-18-4    |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0   | 90.0 | 1  |          | 04/15/20 03:16 | 109-99-9    | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 03:16 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 03:16 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 03:16 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 03:16 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 03:16 | 79-00-5     |      |
| Trichloroethene                         | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 03:16 | 79-01-6     |      |
| Trichlorofluoromethane                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 04/15/20 03:16 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 03:16 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 03:16 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/15/20 03:16 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/15/20 03:16 | 108-67-8    |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 03:16 | 75-01-4     |      |
| m&p-Xylene                              | <0.24   | ug/L  | 2.0    | 0.24 | 1  |          | 04/15/20 03:16 | 179601-23-1 |      |
| o-Xylene                                | <0.16   | ug/L  | 1.0    | 0.16 | 1  |          | 04/15/20 03:16 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 111     | %     | 85-116 |      | 1  |          | 04/15/20 03:16 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 99      | %     | 75-120 |      | 1  |          | 04/15/20 03:16 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 96      | %     | 83-111 |      | 1  |          | 04/15/20 03:16 | 2037-26-5   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-113**      **Lab ID: 50254306014**      Collected: 04/09/20 11:01      Received: 04/10/20 08:25      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in water</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol<br>Pace Analytical Services - Indianapolis                             |         |       |        |       |    |                |                |           |      |
| n-Butanol   | <800    | ug/L  | 5000   | 800   | 1  |                | 04/13/20 22:48 | 71-36-3   |      |
| Ethanol   | <1000   | ug/L  | 5000   | 1000  | 1  |                | 04/13/20 22:48 | 64-17-5   |      |
| Methanol  | <400    | ug/L  | 5000   | 400   | 1  |                | 04/13/20 22:48 | 67-56-1   |      |
| <b>6020 MET ICPMS</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020    Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis           |         |       |        |       |    |                |                |           |      |
| Arsenic   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 20:02 | 7440-38-2 |      |
| Barium  | <100    | ug/L  | 100    | 100   | 1  | 04/13/20 08:44 | 04/15/20 20:02 | 7440-39-3 |      |
| Cadmium   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 08:44 | 04/15/20 20:02 | 7440-43-9 |      |
| Chromium  | <10.0   | ug/L  | 10.0   | 10.0  | 1  | 04/13/20 08:44 | 04/15/20 20:02 | 7440-47-3 |      |
| Lead  | <3.0    | ug/L  | 3.0    | 3.0   | 1  | 04/13/20 08:44 | 04/15/20 20:02 | 7439-92-1 |      |
| Selenium  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 20:02 | 7782-49-2 |      |
| Silver  | <0.20   | ug/L  | 0.25   | 0.20  | 1  | 04/13/20 08:44 | 04/15/20 20:02 | 7440-22-4 |      |
| <b>7470 Mercury</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7470    Preparation Method: EPA 7470<br>Pace Analytical Services - Indianapolis            |         |       |        |       |    |                |                |           |      |
| Mercury   | <0.079  | ug/L  | 0.20   | 0.079 | 1  | 04/16/20 10:33 | 04/17/20 11:38 | 7439-97-6 |      |
| <b>8270 PAH by 3511</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM 40E    Preparation Method: EPA 3511<br>Pace Analytical Services - Indianapolis |         |       |        |       |    |                |                |           |      |
| Acenaphthene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:14 | 83-32-9   |      |
| Acenaphthylene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:14 | 208-96-8  |      |
| Anthracene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:14 | 120-12-7  |      |
| Benzo(a)anthracene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 18:14 | 56-55-3   |      |
| Benzo(a)pyrene  | <0.20   | ug/L  | 0.20   | 0.20  | 1  | 04/15/20 11:20 | 04/15/20 18:14 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 18:14 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 18:14 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 18:14 | 207-08-9  |      |
| Chrysene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 18:14 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/15/20 11:20 | 04/15/20 18:14 | 53-70-3   |      |
| Fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 18:14 | 206-44-0  |      |
| Fluorene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:14 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/15/20 11:20 | 04/15/20 18:14 | 193-39-5  |      |
| 2-Methylnaphthalene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:14 | 91-57-6   |      |
| Naphthalene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:14 | 91-20-3   |      |
| Phenanthrene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/15/20 11:20 | 04/15/20 18:14 | 85-01-8   |      |
| Pyrene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:14 | 129-00-0  |      |
| <b>Surrogates</b>   |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)  | 95      | %     | 48-123 |       | 1  | 04/15/20 11:20 | 04/15/20 18:14 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 106     | %     | 68-138 |       | 1  | 04/15/20 11:20 | 04/15/20 18:14 | 1718-51-0 |      |
| <b>8260 MSV Low Level</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis                                      |         |       |        |       |    |                |                |           |      |
| Acetone   | <50.0   | ug/L  | 50.0   | 50.0  | 1  |                | 04/15/20 03:49 | 67-64-1   |      |
| Acrylonitrile   | <2.0    | ug/L  | 2.0    | 2.0   | 1  |                | 04/15/20 03:49 | 107-13-1  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale

Pace Project No.: 50254306

**Sample: MW-113**      **Lab ID: 50254306014**      Collected: 04/09/20 11:01      Received: 04/10/20 08:25      Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| tert-Amylmethyl ether                   | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 03:49 | 994-05-8   | N2   |
| Benzene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:49 | 71-43-2    |      |
| Bromobenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:49 | 108-86-1   |      |
| Bromochloromethane                      | <0.22   | ug/L  | 1.0  | 0.22 | 1  |          | 04/15/20 03:49 | 74-97-5    |      |
| Bromodichloromethane                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:49 | 75-27-4    |      |
| Bromoform                               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:49 | 75-25-2    |      |
| Bromomethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 03:49 | 74-83-9    |      |
| 2-Butanone (MEK)                        | <25.0   | ug/L  | 25.0 | 25.0 | 1  |          | 04/15/20 03:49 | 78-93-3    |      |
| tert-Butyl Alcohol                      | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/15/20 03:49 | 75-65-0    |      |
| n-Butylbenzene                          | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:49 | 104-51-8   |      |
| sec-Butylbenzene                        | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:49 | 135-98-8   |      |
| tert-Butylbenzene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:49 | 98-06-6    |      |
| Carbon disulfide                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 03:49 | 75-15-0    |      |
| Carbon tetrachloride                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:49 | 56-23-5    |      |
| Chlorobenzene                           | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:49 | 108-90-7   |      |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 03:49 | 75-00-3    |      |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:49 | 67-66-3    |      |
| Chloromethane                           | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 03:49 | 74-87-3    |      |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 04/15/20 03:49 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 04/15/20 03:49 | 96-12-8    |      |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 03:49 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 04/15/20 03:49 | 106-93-4   |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 03:49 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:49 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:49 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:49 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.40   | ug/L  | 100  | 0.40 | 1  |          | 04/15/20 03:49 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 03:49 | 75-71-8    |      |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:49 | 75-34-3    |      |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:49 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:49 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:49 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:49 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:49 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 04/15/20 03:49 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 04/15/20 03:49 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 03:49 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 03:49 | 108-20-3   | N2   |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 03:49 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 03:49 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 03:49 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/15/20 03:49 | 591-78-6   |      |
| Iodomethane                             | <0.51   | ug/L  | 5.0  | 0.51 | 1  |          | 04/15/20 03:49 | 74-88-4    |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 03:49 | 98-82-8    |      |
| p-Isopropyltoluene                      | <0.11   | ug/L  | 1.0  | 0.11 | 1  |          | 04/15/20 03:49 | 99-87-6    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-113**      **Lab ID: 50254306014**      Collected: 04/09/20 11:01      Received: 04/10/20 08:25      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 03:49 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0   | 5.0  | 1  |          | 04/15/20 03:49 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0   | 50.0 | 1  |          | 04/15/20 03:49 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 03:49 | 1634-04-4   |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 03:49 | 91-20-3     |      |
| n-Propylbenzene                         | <100    | ug/L  | 100    | 100  | 1  |          | 04/15/20 03:49 | 103-65-1    |      |
| Styrene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 03:49 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 03:49 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 03:49 | 79-34-5     |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 03:49 | 127-18-4    |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0   | 90.0 | 1  |          | 04/15/20 03:49 | 109-99-9    | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 03:49 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 03:49 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 03:49 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 03:49 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 03:49 | 79-00-5     |      |
| Trichloroethene                         | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 03:49 | 79-01-6     |      |
| Trichlorofluoromethane                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 04/15/20 03:49 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 03:49 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 03:49 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/15/20 03:49 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/15/20 03:49 | 108-67-8    |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 03:49 | 75-01-4     |      |
| m&p-Xylene                              | <0.24   | ug/L  | 2.0    | 0.24 | 1  |          | 04/15/20 03:49 | 179601-23-1 |      |
| o-Xylene                                | <0.16   | ug/L  | 1.0    | 0.16 | 1  |          | 04/15/20 03:49 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 112     | %     | 85-116 |      | 1  |          | 04/15/20 03:49 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 98      | %     | 75-120 |      | 1  |          | 04/15/20 03:49 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 98      | %     | 83-111 |      | 1  |          | 04/15/20 03:49 | 2037-26-5   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-114**      **Lab ID: 50254306015**      Collected: 04/09/20 11:36      Received: 04/10/20 08:25      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in water</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol<br>Pace Analytical Services - Indianapolis                               |         |       |        |       |    |                |                |           |      |
| n-Butanol   | <800    | ug/L  | 5000   | 800   | 1  |                | 04/13/20 22:57 | 71-36-3   |      |
| Ethanol   | <1000   | ug/L  | 5000   | 1000  | 1  |                | 04/13/20 22:57 | 64-17-5   |      |
| Methanol  | <400    | ug/L  | 5000   | 400   | 1  |                | 04/13/20 22:57 | 67-56-1   |      |
| <b>6020 MET ICPMS</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis           |         |       |        |       |    |                |                |           |      |
| Arsenic   | 10.8    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 20:16 | 7440-38-2 |      |
| Barium  | <100    | ug/L  | 100    | 100   | 1  | 04/13/20 08:44 | 04/15/20 20:16 | 7440-39-3 |      |
| Cadmium   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 08:44 | 04/15/20 20:16 | 7440-43-9 |      |
| Chromium  | <10.0   | ug/L  | 10.0   | 10.0  | 1  | 04/13/20 08:44 | 04/15/20 20:16 | 7440-47-3 |      |
| Lead  | <3.0    | ug/L  | 3.0    | 3.0   | 1  | 04/13/20 08:44 | 04/15/20 20:16 | 7439-92-1 |      |
| Selenium  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 20:16 | 7782-49-2 |      |
| Silver  | <0.20   | ug/L  | 0.25   | 0.20  | 1  | 04/13/20 08:44 | 04/15/20 20:16 | 7440-22-4 |      |
| <b>7470 Mercury</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7470      Preparation Method: EPA 7470<br>Pace Analytical Services - Indianapolis            |         |       |        |       |    |                |                |           |      |
| Mercury   | <0.079  | ug/L  | 0.20   | 0.079 | 1  | 04/16/20 10:33 | 04/17/20 11:41 | 7439-97-6 |      |
| <b>8270 PAH by 3511</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM 40E      Preparation Method: EPA 3511<br>Pace Analytical Services - Indianapolis |         |       |        |       |    |                |                |           |      |
| Acenaphthene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:24 | 83-32-9   |      |
| Acenaphthylene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:24 | 208-96-8  |      |
| Anthracene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:24 | 120-12-7  |      |
| Benzo(a)anthracene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 18:24 | 56-55-3   |      |
| Benzo(a)pyrene  | <0.20   | ug/L  | 0.20   | 0.20  | 1  | 04/15/20 11:20 | 04/15/20 18:24 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 18:24 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 18:24 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 18:24 | 207-08-9  |      |
| Chrysene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 18:24 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/15/20 11:20 | 04/15/20 18:24 | 53-70-3   |      |
| Fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 18:24 | 206-44-0  |      |
| Fluorene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:24 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/15/20 11:20 | 04/15/20 18:24 | 193-39-5  |      |
| 2-Methylnaphthalene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:24 | 91-57-6   |      |
| Naphthalene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:24 | 91-20-3   |      |
| Phenanthrene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/15/20 11:20 | 04/15/20 18:24 | 85-01-8   |      |
| Pyrene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:24 | 129-00-0  |      |
| <b>Surrogates</b>   |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)  | 92      | %     | 48-123 |       | 1  | 04/15/20 11:20 | 04/15/20 18:24 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 82      | %     | 68-138 |       | 1  | 04/15/20 11:20 | 04/15/20 18:24 | 1718-51-0 |      |
| <b>8260 MSV Low Level</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis  |         |       |        |       |    |                |                |           |      |
| Acetone   | <50.0   | ug/L  | 50.0   | 50.0  | 1  |                | 04/15/20 04:22 | 67-64-1   |      |
| Acrylonitrile   | <2.0    | ug/L  | 2.0    | 2.0   | 1  |                | 04/15/20 04:22 | 107-13-1  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale

Pace Project No.: 50254306

Sample: MW-114 Lab ID: 50254306015 Collected: 04/09/20 11:36 Received: 04/10/20 08:25 Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| tert-Amylmethyl ether                   | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 04:22 | 994-05-8   | N2   |
| Benzene                                 | 1.9     | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:22 | 71-43-2    |      |
| Bromobenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:22 | 108-86-1   |      |
| Bromochloromethane                      | <0.22   | ug/L  | 1.0  | 0.22 | 1  |          | 04/15/20 04:22 | 74-97-5    |      |
| Bromodichloromethane                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:22 | 75-27-4    |      |
| Bromoform                               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:22 | 75-25-2    |      |
| Bromomethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 04:22 | 74-83-9    |      |
| 2-Butanone (MEK)                        | <25.0   | ug/L  | 25.0 | 25.0 | 1  |          | 04/15/20 04:22 | 78-93-3    |      |
| tert-Butyl Alcohol                      | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/15/20 04:22 | 75-65-0    |      |
| n-Butylbenzene                          | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:22 | 104-51-8   |      |
| sec-Butylbenzene                        | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:22 | 135-98-8   |      |
| tert-Butylbenzene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:22 | 98-06-6    |      |
| Carbon disulfide                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 04:22 | 75-15-0    |      |
| Carbon tetrachloride                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:22 | 56-23-5    |      |
| Chlorobenzene                           | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:22 | 108-90-7   |      |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 04:22 | 75-00-3    |      |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:22 | 67-66-3    |      |
| Chloromethane                           | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 04:22 | 74-87-3    |      |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 04/15/20 04:22 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 04/15/20 04:22 | 96-12-8    |      |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 04:22 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 04/15/20 04:22 | 106-93-4   |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 04:22 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:22 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:22 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:22 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.40   | ug/L  | 100  | 0.40 | 1  |          | 04/15/20 04:22 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 04:22 | 75-71-8    |      |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:22 | 75-34-3    |      |
| 1,2-Dichloroethane                      | 1.1     | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:22 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:22 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | 6.4     | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:22 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | 1.2     | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:22 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:22 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 04/15/20 04:22 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 04/15/20 04:22 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 04:22 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 04:22 | 108-20-3   | N2   |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:22 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 04:22 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 04:22 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/15/20 04:22 | 591-78-6   |      |
| Iodomethane                             | <0.51   | ug/L  | 5.0  | 0.51 | 1  |          | 04/15/20 04:22 | 74-88-4    |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 04:22 | 98-82-8    |      |
| p-Isopropyltoluene                      | <0.11   | ug/L  | 1.0  | 0.11 | 1  |          | 04/15/20 04:22 | 99-87-6    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-114**      **Lab ID: 50254306015**      Collected: 04/09/20 11:36      Received: 04/10/20 08:25      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 04:22 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0   | 5.0  | 1  |          | 04/15/20 04:22 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0   | 50.0 | 1  |          | 04/15/20 04:22 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 04:22 | 1634-04-4   |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 04:22 | 91-20-3     |      |
| n-Propylbenzene                         | <100    | ug/L  | 100    | 100  | 1  |          | 04/15/20 04:22 | 103-65-1    |      |
| Styrene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 04:22 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 04:22 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 04:22 | 79-34-5     |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 04:22 | 127-18-4    |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0   | 90.0 | 1  |          | 04/15/20 04:22 | 109-99-9    | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 04:22 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 04:22 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 04:22 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 04:22 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 04:22 | 79-00-5     |      |
| Trichloroethene                         | 1.4     | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 04:22 | 79-01-6     |      |
| Trichlorofluoromethane                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 04/15/20 04:22 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 04:22 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 04:22 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/15/20 04:22 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/15/20 04:22 | 108-67-8    |      |
| Vinyl chloride                          | 12.9    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 04:22 | 75-01-4     |      |
| m&p-Xylene                              | <0.24   | ug/L  | 2.0    | 0.24 | 1  |          | 04/15/20 04:22 | 179601-23-1 |      |
| o-Xylene                                | 0.22J   | ug/L  | 1.0    | 0.16 | 1  |          | 04/15/20 04:22 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 112     | %     | 85-116 |      | 1  |          | 04/15/20 04:22 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 97      | %     | 75-120 |      | 1  |          | 04/15/20 04:22 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 97      | %     | 83-111 |      | 1  |          | 04/15/20 04:22 | 2037-26-5   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-115**      **Lab ID: 50254306016**      Collected: 04/09/20 12:39      Received: 04/10/20 08:25      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in water</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol<br>Pace Analytical Services - Indianapolis                               |         |       |        |       |    |                |                |           |      |
| n-Butanol   | <800    | ug/L  | 5000   | 800   | 1  |                | 04/13/20 23:07 | 71-36-3   |      |
| Ethanol   | <1000   | ug/L  | 5000   | 1000  | 1  |                | 04/13/20 23:07 | 64-17-5   |      |
| Methanol  | <400    | ug/L  | 5000   | 400   | 1  |                | 04/13/20 23:07 | 67-56-1   |      |
| <b>6020 MET ICPMS</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020      Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis           |         |       |        |       |    |                |                |           |      |
| Arsenic   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 20:20 | 7440-38-2 |      |
| Barium  | 106     | ug/L  | 100    | 100   | 1  | 04/13/20 08:44 | 04/15/20 20:20 | 7440-39-3 |      |
| Cadmium   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 08:44 | 04/15/20 20:20 | 7440-43-9 |      |
| Chromium  | <10.0   | ug/L  | 10.0   | 10.0  | 1  | 04/13/20 08:44 | 04/15/20 20:20 | 7440-47-3 |      |
| Lead  | <3.0    | ug/L  | 3.0    | 3.0   | 1  | 04/13/20 08:44 | 04/15/20 20:20 | 7439-92-1 |      |
| Selenium  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 20:20 | 7782-49-2 |      |
| Silver  | <0.20   | ug/L  | 0.25   | 0.20  | 1  | 04/13/20 08:44 | 04/15/20 20:20 | 7440-22-4 |      |
| <b>7470 Mercury</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7470      Preparation Method: EPA 7470<br>Pace Analytical Services - Indianapolis            |         |       |        |       |    |                |                |           |      |
| Mercury   | <0.079  | ug/L  | 0.20   | 0.079 | 1  | 04/16/20 10:33 | 04/17/20 11:43 | 7439-97-6 |      |
| <b>8270 PAH by 3511</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM 40E      Preparation Method: EPA 3511<br>Pace Analytical Services - Indianapolis |         |       |        |       |    |                |                |           |      |
| Acenaphthene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:35 | 83-32-9   |      |
| Acenaphthylene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:35 | 208-96-8  |      |
| Anthracene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:35 | 120-12-7  |      |
| Benzo(a)anthracene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 18:35 | 56-55-3   |      |
| Benzo(a)pyrene  | <0.20   | ug/L  | 0.20   | 0.20  | 1  | 04/15/20 11:20 | 04/15/20 18:35 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 18:35 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 18:35 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 18:35 | 207-08-9  |      |
| Chrysene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 18:35 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/15/20 11:20 | 04/15/20 18:35 | 53-70-3   |      |
| Fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 18:35 | 206-44-0  |      |
| Fluorene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:35 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/15/20 11:20 | 04/15/20 18:35 | 193-39-5  |      |
| 2-Methylnaphthalene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:35 | 91-57-6   |      |
| Naphthalene   | 7.1     | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:35 | 91-20-3   |      |
| Phenanthrene  | 2.8     | ug/L  | 2.0    | 2.0   | 1  | 04/15/20 11:20 | 04/15/20 18:35 | 85-01-8   |      |
| Pyrene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:35 | 129-00-0  |      |
| <b>Surrogates</b>   |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)  | 94      | %     | 48-123 |       | 1  | 04/15/20 11:20 | 04/15/20 18:35 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 106     | %     | 68-138 |       | 1  | 04/15/20 11:20 | 04/15/20 18:35 | 1718-51-0 |      |
| <b>8260 MSV Low Level</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis  |         |       |        |       |    |                |                |           |      |
| Acetone   | <50.0   | ug/L  | 50.0   | 50.0  | 1  |                | 04/15/20 04:54 | 67-64-1   |      |
| Acrylonitrile   | <2.0    | ug/L  | 2.0    | 2.0   | 1  |                | 04/15/20 04:54 | 107-13-1  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale

Pace Project No.: 50254306

Sample: MW-115 Lab ID: 50254306016 Collected: 04/09/20 12:39 Received: 04/10/20 08:25 Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| tert-Amylmethyl ether                   | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 04:54 | 994-05-8   | N2   |
| Benzene                                 | 1.5     | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:54 | 71-43-2    |      |
| Bromobenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:54 | 108-86-1   |      |
| Bromochloromethane                      | <0.22   | ug/L  | 1.0  | 0.22 | 1  |          | 04/15/20 04:54 | 74-97-5    |      |
| Bromodichloromethane                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:54 | 75-27-4    |      |
| Bromoform                               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:54 | 75-25-2    |      |
| Bromomethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 04:54 | 74-83-9    |      |
| 2-Butanone (MEK)                        | <25.0   | ug/L  | 25.0 | 25.0 | 1  |          | 04/15/20 04:54 | 78-93-3    |      |
| tert-Butyl Alcohol                      | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/15/20 04:54 | 75-65-0    |      |
| n-Butylbenzene                          | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:54 | 104-51-8   |      |
| sec-Butylbenzene                        | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:54 | 135-98-8   |      |
| tert-Butylbenzene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:54 | 98-06-6    |      |
| Carbon disulfide                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 04:54 | 75-15-0    |      |
| Carbon tetrachloride                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:54 | 56-23-5    |      |
| Chlorobenzene                           | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:54 | 108-90-7   |      |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 04:54 | 75-00-3    |      |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:54 | 67-66-3    |      |
| Chloromethane                           | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 04:54 | 74-87-3    |      |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 04/15/20 04:54 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 04/15/20 04:54 | 96-12-8    |      |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 04:54 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 04/15/20 04:54 | 106-93-4   |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 04:54 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:54 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:54 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:54 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.40   | ug/L  | 100  | 0.40 | 1  |          | 04/15/20 04:54 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 04:54 | 75-71-8    |      |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:54 | 75-34-3    |      |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:54 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:54 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:54 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:54 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:54 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 04/15/20 04:54 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 04/15/20 04:54 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 04:54 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 04:54 | 108-20-3   | N2   |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/15/20 04:54 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 04:54 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 04:54 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/15/20 04:54 | 591-78-6   |      |
| Iodomethane                             | <0.51   | ug/L  | 5.0  | 0.51 | 1  |          | 04/15/20 04:54 | 74-88-4    |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/15/20 04:54 | 98-82-8    |      |
| p-Isopropyltoluene                      | <0.11   | ug/L  | 1.0  | 0.11 | 1  |          | 04/15/20 04:54 | 99-87-6    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: MW-115**      **Lab ID: 50254306016**      Collected: 04/09/20 12:39      Received: 04/10/20 08:25      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 04:54 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0   | 5.0  | 1  |          | 04/15/20 04:54 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0   | 50.0 | 1  |          | 04/15/20 04:54 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 04:54 | 1634-04-4   |      |
| Naphthalene                             | 6.9     | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 04:54 | 91-20-3     |      |
| n-Propylbenzene                         | <100    | ug/L  | 100    | 100  | 1  |          | 04/15/20 04:54 | 103-65-1    |      |
| Styrene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 04:54 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 04:54 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 04:54 | 79-34-5     |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 04:54 | 127-18-4    |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0   | 90.0 | 1  |          | 04/15/20 04:54 | 109-99-9    | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 04:54 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 04:54 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 04:54 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 04:54 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 04:54 | 79-00-5     |      |
| Trichloroethene                         | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 04:54 | 79-01-6     |      |
| Trichlorofluoromethane                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 04/15/20 04:54 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 04:54 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 04:54 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/15/20 04:54 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/15/20 04:54 | 108-67-8    |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 04:54 | 75-01-4     |      |
| m&p-Xylene                              | 1.8J    | ug/L  | 2.0    | 0.24 | 1  |          | 04/15/20 04:54 | 179601-23-1 |      |
| o-Xylene                                | 0.66J   | ug/L  | 1.0    | 0.16 | 1  |          | 04/15/20 04:54 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 112     | %     | 85-116 |      | 1  |          | 04/15/20 04:54 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 99      | %     | 75-120 |      | 1  |          | 04/15/20 04:54 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 95      | %     | 83-111 |      | 1  |          | 04/15/20 04:54 | 2037-26-5   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: DUP-2**      **Lab ID: 50254306017**      Collected: 04/09/20 00:00      Received: 04/10/20 08:25      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8015M Alcohols in water</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8015 Alcohol-Glycol<br>Pace Analytical Services - Indianapolis                             |         |       |        |       |    |                |                |           |      |
| n-Butanol   | <800    | ug/L  | 5000   | 800   | 1  |                | 04/13/20 23:16 | 71-36-3   |      |
| Ethanol   | <1000   | ug/L  | 5000   | 1000  | 1  |                | 04/13/20 23:16 | 64-17-5   |      |
| Methanol  | <400    | ug/L  | 5000   | 400   | 1  |                | 04/13/20 23:16 | 67-56-1   |      |
| <b>6020 MET ICPMS</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 6020    Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis           |         |       |        |       |    |                |                |           |      |
| Arsenic   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 20:25 | 7440-38-2 |      |
| Barium  | <100    | ug/L  | 100    | 100   | 1  | 04/13/20 08:44 | 04/15/20 20:25 | 7440-39-3 |      |
| Cadmium   | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/13/20 08:44 | 04/15/20 20:25 | 7440-43-9 |      |
| Chromium  | <10.0   | ug/L  | 10.0   | 10.0  | 1  | 04/13/20 08:44 | 04/15/20 20:25 | 7440-47-3 |      |
| Lead  | <3.0    | ug/L  | 3.0    | 3.0   | 1  | 04/13/20 08:44 | 04/15/20 20:25 | 7439-92-1 |      |
| Selenium  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/13/20 08:44 | 04/15/20 20:25 | 7782-49-2 |      |
| Silver  | <0.20   | ug/L  | 0.25   | 0.20  | 1  | 04/13/20 08:44 | 04/15/20 20:25 | 7440-22-4 |      |
| <b>7470 Mercury</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 7470    Preparation Method: EPA 7470<br>Pace Analytical Services - Indianapolis            |         |       |        |       |    |                |                |           |      |
| Mercury   | <0.079  | ug/L  | 0.20   | 0.079 | 1  | 04/16/20 10:33 | 04/17/20 11:46 | 7439-97-6 |      |
| <b>8270 PAH by 3511</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM 40E    Preparation Method: EPA 3511<br>Pace Analytical Services - Indianapolis |         |       |        |       |    |                |                |           |      |
| Acenaphthene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:46 | 83-32-9   |      |
| Acenaphthylene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:46 | 208-96-8  |      |
| Anthracene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:46 | 120-12-7  |      |
| Benzo(a)anthracene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 18:46 | 56-55-3   |      |
| Benzo(a)pyrene  | <0.20   | ug/L  | 0.20   | 0.20  | 1  | 04/15/20 11:20 | 04/15/20 18:46 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 18:46 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 18:46 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 18:46 | 207-08-9  |      |
| Chrysene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 18:46 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/15/20 11:20 | 04/15/20 18:46 | 53-70-3   |      |
| Fluoranthene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  | 04/15/20 11:20 | 04/15/20 18:46 | 206-44-0  |      |
| Fluorene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:46 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/15/20 11:20 | 04/15/20 18:46 | 193-39-5  |      |
| 2-Methylnaphthalene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:46 | 91-57-6   |      |
| Naphthalene   | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:46 | 91-20-3   |      |
| Phenanthrene  | <2.0    | ug/L  | 2.0    | 2.0   | 1  | 04/15/20 11:20 | 04/15/20 18:46 | 85-01-8   |      |
| Pyrene  | <5.0    | ug/L  | 5.0    | 5.0   | 1  | 04/15/20 11:20 | 04/15/20 18:46 | 129-00-0  |      |
| <b>Surrogates</b>   |         |       |        |       |    |                |                |           |      |
| 2-Fluorobiphenyl (S)  | 99      | %     | 48-123 |       | 1  | 04/15/20 11:20 | 04/15/20 18:46 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 99      | %     | 68-138 |       | 1  | 04/15/20 11:20 | 04/15/20 18:46 | 1718-51-0 |      |
| <b>8260 MSV Low Level</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis                                      |         |       |        |       |    |                |                |           |      |
| Acetone   | <50.0   | ug/L  | 50.0   | 50.0  | 1  |                | 04/15/20 05:27 | 67-64-1   |      |
| Acrylonitrile   | <2.0    | ug/L  | 2.0    | 2.0   | 1  |                | 04/15/20 05:27 | 107-13-1  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale

Pace Project No.: 50254306

**Sample:** DUP-2      **Lab ID:** 50254306017      Collected: 04/09/20 00:00      Received: 04/10/20 08:25      Matrix: Water

| Parameters                  | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>   |         | Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| tert-Amylmethyl ether       | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/15/20 05:27 | 994-05-8   | N2   |
| Benzene                     | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 05:27 | 71-43-2    |      |
| Bromobenzene                | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 05:27 | 108-86-1   |      |
| Bromochloromethane          | <0.22   | ug/L   | 1.0  | 0.22 | 1  |          | 04/15/20 05:27 | 74-97-5    |      |
| Bromodichloromethane        | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 05:27 | 75-27-4    |      |
| Bromoform                   | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 05:27 | 75-25-2    |      |
| Bromomethane                | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/15/20 05:27 | 74-83-9    |      |
| 2-Butanone (MEK)            | <25.0   | ug/L   | 25.0 | 25.0 | 1  |          | 04/15/20 05:27 | 78-93-3    |      |
| tert-Butyl Alcohol          | <50.0   | ug/L   | 50.0 | 50.0 | 1  |          | 04/15/20 05:27 | 75-65-0    |      |
| n-Butylbenzene              | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 05:27 | 104-51-8   |      |
| sec-Butylbenzene            | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 05:27 | 135-98-8   |      |
| tert-Butylbenzene           | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 05:27 | 98-06-6    |      |
| Carbon disulfide            | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/15/20 05:27 | 75-15-0    |      |
| Carbon tetrachloride        | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 05:27 | 56-23-5    |      |
| Chlorobenzene               | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 05:27 | 108-90-7   |      |
| Chloroethane                | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/15/20 05:27 | 75-00-3    |      |
| Chloroform                  | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 05:27 | 67-66-3    |      |
| Chloromethane               | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/15/20 05:27 | 74-87-3    |      |
| Cyclohexane                 | <10.0   | ug/L   | 10.0 | 10.0 | 1  |          | 04/15/20 05:27 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane | <0.25   | ug/L   | 0.50 | 0.25 | 1  |          | 04/15/20 05:27 | 96-12-8    |      |
| Dibromochloromethane        | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/15/20 05:27 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | <0.23   | ug/L   | 0.50 | 0.23 | 1  |          | 04/15/20 05:27 | 106-93-4   |      |
| Dibromomethane              | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/15/20 05:27 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 05:27 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 05:27 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 05:27 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | <0.40   | ug/L   | 100  | 0.40 | 1  |          | 04/15/20 05:27 | 110-57-6   |      |
| Dichlorodifluoromethane     | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/15/20 05:27 | 75-71-8    |      |
| 1,1-Dichloroethane          | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 05:27 | 75-34-3    |      |
| 1,2-Dichloroethane          | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 05:27 | 107-06-2   |      |
| 1,1-Dichloroethene          | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 05:27 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 05:27 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 05:27 | 156-60-5   |      |
| 1,2-Dichloropropane         | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 05:27 | 78-87-5    |      |
| cis-1,3-Dichloropropene     | <100    | ug/L   | 100  | 100  | 1  |          | 04/15/20 05:27 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | <100    | ug/L   | 100  | 100  | 1  |          | 04/15/20 05:27 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether) | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/15/20 05:27 | 60-29-7    |      |
| Diisopropyl ether           | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/15/20 05:27 | 108-20-3   | N2   |
| Ethylbenzene                | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 05:27 | 100-41-4   |      |
| Ethyl-tert-butyl ether      | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/15/20 05:27 | 637-92-3   | N2   |
| Hexachloroethane            | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/15/20 05:27 | 67-72-1    | N2   |
| 2-Hexanone                  | <50.0   | ug/L   | 50.0 | 50.0 | 1  |          | 04/15/20 05:27 | 591-78-6   |      |
| Iodomethane                 | <0.51   | ug/L   | 5.0  | 0.51 | 1  |          | 04/15/20 05:27 | 74-88-4    |      |
| Isopropylbenzene (Cumene)   | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/15/20 05:27 | 98-82-8    |      |
| p-Isopropyltoluene          | <0.11   | ug/L   | 1.0  | 0.11 | 1  |          | 04/15/20 05:27 | 99-87-6    |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: DUP-2**      **Lab ID: 50254306017**      Collected: 04/09/20 00:00      Received: 04/10/20 08:25      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 05:27 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0   | 5.0  | 1  |          | 04/15/20 05:27 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0   | 50.0 | 1  |          | 04/15/20 05:27 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 05:27 | 1634-04-4   |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 05:27 | 91-20-3     |      |
| n-Propylbenzene                         | <100    | ug/L  | 100    | 100  | 1  |          | 04/15/20 05:27 | 103-65-1    |      |
| Styrene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 05:27 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 05:27 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 05:27 | 79-34-5     |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 05:27 | 127-18-4    |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0   | 90.0 | 1  |          | 04/15/20 05:27 | 109-99-9    | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 05:27 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 05:27 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 05:27 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 05:27 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 05:27 | 79-00-5     |      |
| Trichloroethene                         | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 05:27 | 79-01-6     |      |
| Trichlorofluoromethane                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 04/15/20 05:27 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 05:27 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 05:27 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/15/20 05:27 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/15/20 05:27 | 108-67-8    |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 05:27 | 75-01-4     |      |
| m&p-Xylene                              | <0.24   | ug/L  | 2.0    | 0.24 | 1  |          | 04/15/20 05:27 | 179601-23-1 |      |
| o-Xylene                                | <0.16   | ug/L  | 1.0    | 0.16 | 1  |          | 04/15/20 05:27 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 113     | %     | 85-116 |      | 1  |          | 04/15/20 05:27 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 98      | %     | 75-120 |      | 1  |          | 04/15/20 05:27 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 98      | %     | 83-111 |      | 1  |          | 04/15/20 05:27 | 2037-26-5   |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: Trip Blank**      **Lab ID: 50254306018**      Collected: 04/09/20 00:00      Received: 04/10/20 08:25      Matrix: Water

| Parameters                  | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>   |         | Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Acetone                     | <50.0   | ug/L   | 50.0 | 50.0 | 1  |          | 04/15/20 06:00 | 67-64-1    |      |
| Acrylonitrile               | <2.0    | ug/L   | 2.0  | 2.0  | 1  |          | 04/15/20 06:00 | 107-13-1   |      |
| tert-Amylmethyl ether       | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/15/20 06:00 | 994-05-8   | N2   |
| Benzene                     | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 06:00 | 71-43-2    |      |
| Bromobenzene                | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 06:00 | 108-86-1   |      |
| Bromochloromethane          | <0.22   | ug/L   | 1.0  | 0.22 | 1  |          | 04/15/20 06:00 | 74-97-5    |      |
| Bromodichloromethane        | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 06:00 | 75-27-4    |      |
| Bromoform                   | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 06:00 | 75-25-2    |      |
| Bromomethane                | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/15/20 06:00 | 74-83-9    |      |
| 2-Butanone (MEK)            | <25.0   | ug/L   | 25.0 | 25.0 | 1  |          | 04/15/20 06:00 | 78-93-3    |      |
| tert-Butyl Alcohol          | <50.0   | ug/L   | 50.0 | 50.0 | 1  |          | 04/15/20 06:00 | 75-65-0    |      |
| n-Butylbenzene              | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 06:00 | 104-51-8   |      |
| sec-Butylbenzene            | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 06:00 | 135-98-8   |      |
| tert-Butylbenzene           | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 06:00 | 98-06-6    |      |
| Carbon disulfide            | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/15/20 06:00 | 75-15-0    |      |
| Carbon tetrachloride        | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 06:00 | 56-23-5    |      |
| Chlorobenzene               | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 06:00 | 108-90-7   |      |
| Chloroethane                | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/15/20 06:00 | 75-00-3    |      |
| Chloroform                  | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 06:00 | 67-66-3    |      |
| Chloromethane               | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/15/20 06:00 | 74-87-3    |      |
| Cyclohexane                 | <10.0   | ug/L   | 10.0 | 10.0 | 1  |          | 04/15/20 06:00 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane | <0.25   | ug/L   | 0.50 | 0.25 | 1  |          | 04/15/20 06:00 | 96-12-8    |      |
| Dibromochloromethane        | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/15/20 06:00 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | <0.23   | ug/L   | 0.50 | 0.23 | 1  |          | 04/15/20 06:00 | 106-93-4   |      |
| Dibromomethane              | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/15/20 06:00 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 06:00 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 06:00 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 06:00 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | <0.40   | ug/L   | 100  | 0.40 | 1  |          | 04/15/20 06:00 | 110-57-6   |      |
| Dichlorodifluoromethane     | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/15/20 06:00 | 75-71-8    |      |
| 1,1-Dichloroethane          | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 06:00 | 75-34-3    |      |
| 1,2-Dichloroethane          | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 06:00 | 107-06-2   |      |
| 1,1-Dichloroethene          | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 06:00 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 06:00 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 06:00 | 156-60-5   |      |
| 1,2-Dichloropropane         | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 06:00 | 78-87-5    |      |
| cis-1,3-Dichloropropene     | <100    | ug/L   | 100  | 100  | 1  |          | 04/15/20 06:00 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | <100    | ug/L   | 100  | 100  | 1  |          | 04/15/20 06:00 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether) | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/15/20 06:00 | 60-29-7    |      |
| Diisopropyl ether           | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/15/20 06:00 | 108-20-3   | N2   |
| Ethylbenzene                | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/15/20 06:00 | 100-41-4   |      |
| Ethyl-tert-butyl ether      | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/15/20 06:00 | 637-92-3   | N2   |
| Hexachloroethane            | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/15/20 06:00 | 67-72-1    | N2   |
| 2-Hexanone                  | <50.0   | ug/L   | 50.0 | 50.0 | 1  |          | 04/15/20 06:00 | 591-78-6   |      |
| Iodomethane                 | <0.51   | ug/L   | 5.0  | 0.51 | 1  |          | 04/15/20 06:00 | 74-88-4    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

**Sample: Trip Blank**      **Lab ID: 50254306018**      Collected: 04/09/20 00:00      Received: 04/10/20 08:25      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 06:00 | 98-82-8     |      |
| p-Isopropyltoluene                      | <0.11   | ug/L  | 1.0    | 0.11 | 1  |          | 04/15/20 06:00 | 99-87-6     |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 06:00 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0   | 5.0  | 1  |          | 04/15/20 06:00 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0   | 50.0 | 1  |          | 04/15/20 06:00 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 06:00 | 1634-04-4   |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 06:00 | 91-20-3     |      |
| n-Propylbenzene                         | <100    | ug/L  | 100    | 100  | 1  |          | 04/15/20 06:00 | 103-65-1    |      |
| Styrene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 06:00 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 06:00 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 06:00 | 79-34-5     |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 06:00 | 127-18-4    |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0   | 90.0 | 1  |          | 04/15/20 06:00 | 109-99-9    | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 06:00 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 06:00 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 06:00 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 06:00 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 06:00 | 79-00-5     |      |
| Trichloroethene                         | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 06:00 | 79-01-6     |      |
| Trichlorofluoromethane                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 04/15/20 06:00 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 06:00 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/15/20 06:00 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/15/20 06:00 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/15/20 06:00 | 108-67-8    |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/15/20 06:00 | 75-01-4     |      |
| m&p-Xylene                              | <0.24   | ug/L  | 2.0    | 0.24 | 1  |          | 04/15/20 06:00 | 179601-23-1 |      |
| o-Xylene                                | <0.16   | ug/L  | 1.0    | 0.16 | 1  |          | 04/15/20 06:00 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 113     | %     | 85-116 |      | 1  |          | 04/15/20 06:00 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 99      | %     | 75-120 |      | 1  |          | 04/15/20 06:00 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 97      | %     | 83-111 |      | 1  |          | 04/15/20 06:00 | 2037-26-5   |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale

Pace Project No.: 50254306

|                  |                         |                       |   |
|------------------|-------------------------|-----------------------|---|
| QC Batch:        | 556643                  | Analysis Method:      | EPA 8015 Alcohol-Glycol                 |
| QC Batch Method: | EPA 8015 Alcohol-Glycol | Analysis Description: | EPA 8015 Modified                       |
|                  |                         | Laboratory:           | Pace Analytical Services - Indianapolis |

Associated Lab Samples: 50254306001, 50254306002, 50254306003, 50254306004, 50254306005, 50254306006, 50254306007, 50254306008, 50254306009, 50254306010

METHOD BLANK: 2567608 Matrix: Water

Associated Lab Samples: 50254306001, 50254306002, 50254306003, 50254306004, 50254306005, 50254306006, 50254306007, 50254306008, 50254306009, 50254306010

| Parameter | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Ethanol   | ug/L  | <1000        | 5000            | 1000 | 04/13/20 18:59 |            |
| Methanol  | ug/L  | <400         | 5000            | 400  | 04/13/20 18:59 |            |
| n-Butanol | ug/L  | <800         | 5000            | 800  | 04/13/20 18:59 |            |

LABORATORY CONTROL SAMPLE: 2567609

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Ethanol   | ug/L  | 50000       | 49800      | 100       | 69-128       |            |
| Methanol  | ug/L  | 50000       | 48700      | 97        | 73-118       |            |
| n-Butanol | ug/L  | 50000       | 47900      | 96        | 77-124       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2568539 2568540

| Parameter | Units | 50254210001    |                 | 2568539   |            | 2568540  |           | % Rec Limits | RPD    | Max RPD | Qual |
|-----------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|--------|---------|------|
|           |       | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec |              |        |         |      |
| Ethanol   | ug/L  | ND             | 50000           | 50000     | 44300      | 47500    | 89        | 95           | 64-132 | 7       | 20   |
| Methanol  | ug/L  | ND             | 50000           | 50000     | 43000      | 46400    | 86        | 93           | 66-123 | 7       | 20   |
| n-Butanol | ug/L  | ND             | 50000           | 50000     | 41900      | 45500    | 84        | 91           | 66-130 | 8       | 20   |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

|                  |                         |                       |   |
|------------------|-------------------------|-----------------------|---|
| QC Batch:        | 556644                  | Analysis Method:      | EPA 8015 Alcohol-Glycol                 |
| QC Batch Method: | EPA 8015 Alcohol-Glycol | Analysis Description: | EPA 8015 Modified                       |
|                  |                         | Laboratory:           | Pace Analytical Services - Indianapolis |

Associated Lab Samples: 50254306011, 50254306012, 50254306013, 50254306014, 50254306015, 50254306016, 50254306017

METHOD BLANK: 2567612 Matrix: Water  
Associated Lab Samples: 50254306011, 50254306012, 50254306013, 50254306014, 50254306015, 50254306016, 50254306017

| Parameter | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Ethanol   | ug/L  | <1000        | 5000            | 1000 | 04/13/20 19:09 |            |
| Methanol  | ug/L  | <400         | 5000            | 400  | 04/13/20 19:09 |            |
| n-Butanol | ug/L  | <800         | 5000            | 800  | 04/13/20 19:09 |            |

LABORATORY CONTROL SAMPLE: 2567613

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Ethanol   | ug/L  | 50000       | 48500      | 97        | 69-128       |            |
| Methanol  | ug/L  | 50000       | 47700      | 95        | 73-118       |            |
| n-Butanol | ug/L  | 50000       | 46300      | 93        | 77-124       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2568541 2568542

| Parameter | Units | 50254306011 |                | 50254306012     |            | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|----------------|-----------------|------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
|           |       | Result      | MS Spike Conc. | MSD Spike Conc. | MSD Result |           |            |          |           |              |     |         |      |
| Ethanol   | ug/L  | <1000       | 50000          | 50000           | 44500      | 45000     | 89         | 90       | 64-132    | 1            | 20  |         |      |
| Methanol  | ug/L  | <400        | 50000          | 50000           | 43000      | 43800     | 86         | 88       | 66-123    | 2            | 20  |         |      |
| n-Butanol | ug/L  | <800        | 50000          | 50000           | 41900      | 42700     | 84         | 85       | 66-130    | 2            | 20  |         |      |

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**QUALITY CONTROL DATA**

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

|                  |          |                       |   |
|------------------|----------|-----------------------|---|
| QC Batch:        | 557018   | Analysis Method:      | EPA 7470                                |
| QC Batch Method: | EPA 7470 | Analysis Description: | 7470 Mercury                            |
|                  |          | Laboratory:           | Pace Analytical Services - Indianapolis |

Associated Lab Samples: 50254306001, 50254306002, 50254306003, 50254306004, 50254306005, 50254306006, 50254306007, 50254306008, 50254306009, 50254306010, 50254306011, 50254306012, 50254306013, 50254306014, 50254306015, 50254306016, 50254306017

METHOD BLANK: 2569132 Matrix: Water

Associated Lab Samples: 50254306001, 50254306002, 50254306003, 50254306004, 50254306005, 50254306006, 50254306007, 50254306008, 50254306009, 50254306010, 50254306011, 50254306012, 50254306013, 50254306014, 50254306015, 50254306016, 50254306017

| Parameter | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Mercury   | ug/L  | <0.079       | 0.20            | 0.079 | 04/17/20 10:44 |            |

LABORATORY CONTROL SAMPLE: 2569133

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury   | ug/L  | 5           | 5.4        | 108       | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2569134 2569135

| Parameter | Units | 50254306002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Mercury   | ug/L  | <0.079             | 5              | 5               | 4.8       | 4.9        | 96       | 97        | 75-125       | 1   | 20      |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

QC Batch: 556720 Analysis Method: EPA 6020  
QC Batch Method: EPA 200.2 Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50254306001, 50254306002, 50254306003, 50254306004, 50254306005, 50254306006, 50254306007, 50254306008, 50254306009, 50254306010, 50254306011, 50254306012, 50254306013, 50254306014, 50254306015, 50254306016, 50254306017

METHOD BLANK: 2567969 Matrix: Water  
Associated Lab Samples: 50254306001, 50254306002, 50254306003, 50254306004, 50254306005, 50254306006, 50254306007, 50254306008, 50254306009, 50254306010, 50254306011, 50254306012, 50254306013, 50254306014, 50254306015, 50254306016, 50254306017

| Parameter | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Arsenic   | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 18:26 |            |
| Barium    | ug/L  | <100         | 100             | 100  | 04/15/20 18:26 |            |
| Cadmium   | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 18:26 |            |
| Chromium  | ug/L  | <10.0        | 10.0            | 10.0 | 04/15/20 18:26 |            |
| Lead      | ug/L  | <3.0         | 3.0             | 3.0  | 04/15/20 18:26 |            |
| Selenium  | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 18:26 |            |
| Silver    | ug/L  | <0.20        | 0.25            | 0.20 | 04/15/20 18:26 |            |

LABORATORY CONTROL SAMPLE: 2567970

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic   | ug/L  | 40          | 36.5       | 91        | 80-120       |            |
| Barium    | ug/L  | 40          | <100       | 105       | 80-120       |            |
| Cadmium   | ug/L  | 40          | 39.8       | 100       | 80-120       |            |
| Chromium  | ug/L  | 40          | 38.9       | 97        | 80-120       |            |
| Lead      | ug/L  | 40          | 41.1       | 103       | 80-120       |            |
| Selenium  | ug/L  | 40          | 38.1       | 95        | 80-120       |            |
| Silver    | ug/L  | 40          | 41.4       | 104       | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2567971 2567972

| Parameter | Units | 50254306004 |                | 50254306004     |           | 50254306004 |          | 50254306004 |        | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|----------------|-----------------|-----------|-------------|----------|-------------|--------|--------------|-----|---------|------|
|           |       | Result      | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result  | MS % Rec | MSD % Rec   |        |              |     |         |      |
| Arsenic   | ug/L  | <5.0        | 40             | 40              | 37.8      | 38.0        | 93       | 94          | 75-125 | 1            | 20  |         |      |
| Barium    | ug/L  | <100        | 40             | 40              | 115       | 112         | 102      | 95          | 75-125 | 3            | 20  |         |      |
| Cadmium   | ug/L  | <1.0        | 40             | 40              | 38.2      | 37.3        | 95       | 93          | 75-125 | 2            | 20  |         |      |
| Chromium  | ug/L  | <10.0       | 40             | 40              | 37.4      | 37.8        | 93       | 94          | 75-125 | 1            | 20  |         |      |
| Lead      | ug/L  | <3.0        | 40             | 40              | 40.7      | 40.0        | 102      | 100         | 75-125 | 2            | 20  |         |      |
| Selenium  | ug/L  | <5.0        | 40             | 40              | 38.1      | 38.9        | 92       | 94          | 75-125 | 2            | 20  |         |      |
| Silver    | ug/L  | <0.20       | 40             | 40              | 38.7      | 37.6        | 97       | 94          | 75-125 | 3            | 20  |         |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

QC Batch: 556981 Analysis Method: EPA 5030B/8260  
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Low Level  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50254306002, 50254306003, 50254306004

METHOD BLANK: 2568931 Matrix: Water  
Associated Lab Samples: 50254306002, 50254306003, 50254306004

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:17 |            |
| 1,1,1-Trichloroethane       | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:17 |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:17 |            |
| 1,1,2-Trichloroethane       | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:17 |            |
| 1,1-Dichloroethane          | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:17 |            |
| 1,1-Dichloroethene          | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:17 |            |
| 1,2,3-Trichlorobenzene      | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:17 |            |
| 1,2,3-Trichloropropane      | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:17 |            |
| 1,2,3-Trimethylbenzene      | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:17 | N2         |
| 1,2,4-Trichlorobenzene      | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:17 |            |
| 1,2,4-Trimethylbenzene      | ug/L  | <1.0         | 5.0             | 1.0  | 04/14/20 12:17 |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | <0.25        | 0.50            | 0.25 | 04/14/20 12:17 |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | <0.23        | 0.50            | 0.23 | 04/14/20 12:17 |            |
| 1,2-Dichlorobenzene         | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:17 |            |
| 1,2-Dichloroethane          | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:17 |            |
| 1,2-Dichloropropane         | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:17 |            |
| 1,3,5-Trimethylbenzene      | ug/L  | <1.0         | 5.0             | 1.0  | 04/14/20 12:17 |            |
| 1,3-Dichlorobenzene         | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:17 |            |
| 1,4-Dichlorobenzene         | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:17 |            |
| 2-Butanone (MEK)            | ug/L  | <25.0        | 25.0            | 25.0 | 04/14/20 12:17 |            |
| 2-Hexanone                  | ug/L  | <50.0        | 50.0            | 50.0 | 04/14/20 12:17 |            |
| 2-Methylnaphthalene         | ug/L  | <5.0         | 20.0            | 5.0  | 04/14/20 12:17 | N2         |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | <50.0        | 50.0            | 50.0 | 04/14/20 12:17 |            |
| Acetone                     | ug/L  | <50.0        | 50.0            | 50.0 | 04/14/20 12:17 |            |
| Acrylonitrile               | ug/L  | <2.0         | 2.0             | 2.0  | 04/14/20 12:17 |            |
| Benzene                     | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:17 |            |
| Bromobenzene                | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:17 |            |
| Bromochloromethane          | ug/L  | <0.59        | 1.0             | 0.59 | 04/14/20 12:17 |            |
| Bromodichloromethane        | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:17 |            |
| Bromoform                   | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:17 |            |
| Bromomethane                | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:17 |            |
| Carbon disulfide            | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:17 |            |
| Carbon tetrachloride        | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:17 |            |
| Chlorobenzene               | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:17 |            |
| Chloroethane                | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:17 |            |
| Chloroform                  | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:17 |            |
| Chloromethane               | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:17 |            |
| cis-1,2-Dichloroethene      | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:17 |            |
| cis-1,3-Dichloropropene     | ug/L  | <100         | 100             | 100  | 04/14/20 12:17 |            |
| Cyclohexane                 | ug/L  | <10.0        | 10.0            | 10.0 | 04/14/20 12:17 | N2         |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

METHOD BLANK: 2568931 Matrix: Water  
Associated Lab Samples: 50254306002, 50254306003, 50254306004

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| Dibromochloromethane        | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:17 |            |
| Dibromomethane              | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:17 |            |
| Dichlorodifluoromethane     | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:17 |            |
| Diethyl ether (Ethyl ether) | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:17 |            |
| Diisopropyl ether           | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:17 | N2         |
| Ethyl-tert-butyl ether      | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:17 | N2         |
| Ethylbenzene                | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:17 |            |
| Hexachloroethane            | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:17 | N2         |
| Iodomethane                 | ug/L  | <0.45        | 5.0             | 0.45 | 04/14/20 12:17 |            |
| Isopropylbenzene (Cumene)   | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:17 |            |
| m&p-Xylene                  | ug/L  | <0.16        | 2.0             | 0.16 | 04/14/20 12:17 |            |
| Methyl-tert-butyl ether     | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:17 |            |
| Methylene Chloride          | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:17 |            |
| n-Butylbenzene              | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:17 |            |
| n-Propylbenzene             | ug/L  | <100         | 100             | 100  | 04/14/20 12:17 |            |
| Naphthalene                 | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:17 |            |
| o-Xylene                    | ug/L  | <0.39        | 1.0             | 0.39 | 04/14/20 12:17 |            |
| p-Isopropyltoluene          | ug/L  | <0.28        | 1.0             | 0.28 | 04/14/20 12:17 |            |
| sec-Butylbenzene            | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:17 |            |
| Styrene                     | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:17 |            |
| tert-Amylmethyl ether       | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:17 | N2         |
| tert-Butyl Alcohol          | ug/L  | <50.0        | 50.0            | 50.0 | 04/14/20 12:17 |            |
| tert-Butylbenzene           | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:17 |            |
| Tetrachloroethane           | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:17 |            |
| Tetrahydrofuran             | ug/L  | <90.0        | 90.0            | 90.0 | 04/14/20 12:17 | N2         |
| Toluene                     | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:17 |            |
| trans-1,2-Dichloroethene    | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:17 |            |
| trans-1,3-Dichloropropene   | ug/L  | <100         | 100             | 100  | 04/14/20 12:17 |            |
| trans-1,4-Dichloro-2-butene | ug/L  | <0.82        | 100             | 0.82 | 04/14/20 12:17 |            |
| Trichloroethene             | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:17 |            |
| Trichlorofluoromethane      | ug/L  | <1.0         | 2.0             | 1.0  | 04/14/20 12:17 |            |
| Vinyl chloride              | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:17 |            |
| 4-Bromofluorobenzene (S)    | %     | 110          | 85-116          |      | 04/14/20 12:17 |            |
| Dibromofluoromethane (S)    | %     | 99           | 75-120          |      | 04/14/20 12:17 |            |
| Toluene-d8 (S)              | %     | 97           | 83-111          |      | 04/14/20 12:17 |            |

LABORATORY CONTROL SAMPLE: 2568932

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/L  | 50          | 50.6       | 101       | 78-120       |            |
| 1,1,1-Trichloroethane     | ug/L  | 50          | 57.7       | 115       | 78-130       |            |
| 1,1,2,2-Tetrachloroethane | ug/L  | 50          | 46.0       | 92        | 64-126       |            |
| 1,1,2-Trichloroethane     | ug/L  | 50          | 49.3       | 99        | 73-125       |            |
| 1,1-Dichloroethane        | ug/L  | 50          | 58.5       | 117       | 77-123       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

LABORATORY CONTROL SAMPLE: 2568932

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1-Dichloroethene          | ug/L  | 50          | 55.5       | 111       | 79-128       |            |
| 1,2,3-Trichlorobenzene      | ug/L  | 50          | 53.6       | 107       | 75-126       |            |
| 1,2,3-Trichloropropane      | ug/L  | 50          | 49.4       | 99        | 71-131       |            |
| 1,2,4-Trichlorobenzene      | ug/L  | 50          | 55.9       | 112       | 76-130       |            |
| 1,2,4-Trimethylbenzene      | ug/L  | 50          | 54.0       | 108       | 76-119       |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | 50          | 49.6       | 99        | 71-133       |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | 50          | 50.3       | 101       | 76-122       |            |
| 1,2-Dichlorobenzene         | ug/L  | 50          | 48.5       | 97        | 79-113       |            |
| 1,2-Dichloroethane          | ug/L  | 50          | 52.1       | 104       | 66-127       |            |
| 1,2-Dichloropropane         | ug/L  | 50          | 55.6       | 111       | 75-127       |            |
| 1,3,5-Trimethylbenzene      | ug/L  | 50          | 53.6       | 107       | 78-116       |            |
| 1,3-Dichlorobenzene         | ug/L  | 50          | 50.5       | 101       | 79-120       |            |
| 1,4-Dichlorobenzene         | ug/L  | 50          | 48.2       | 96        | 77-117       |            |
| 2-Butanone (MEK)            | ug/L  | 250         | 212        | 85        | 61-138       |            |
| 2-Hexanone                  | ug/L  | 250         | 232        | 93        | 58-138       |            |
| 2-Methylnaphthalene         | ug/L  | 50          | 50.3       | 101       | 60-136       | N2         |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | 250         | 223        | 89        | 60-131       |            |
| Acetone                     | ug/L  | 250         | 220        | 88        | 57-126       |            |
| Acrylonitrile               | ug/L  | 200         | 177        | 89        | 65-127       |            |
| Benzene                     | ug/L  | 50          | 53.2       | 106       | 75-118       |            |
| Bromobenzene                | ug/L  | 50          | 56.9       | 114       | 68-127       |            |
| Bromochloromethane          | ug/L  | 50          | 47.3       | 95        | 66-126       |            |
| Bromodichloromethane        | ug/L  | 50          | 51.3       | 103       | 75-120       |            |
| Bromoform                   | ug/L  | 50          | 43.3       | 87        | 61-119       |            |
| Bromomethane                | ug/L  | 50          | 76.1       | 152       | 12-184       |            |
| Carbon disulfide            | ug/L  | 50          | 50.8       | 102       | 71-123       |            |
| Carbon tetrachloride        | ug/L  | 50          | 55.7       | 111       | 73-125       |            |
| Chlorobenzene               | ug/L  | 50          | 51.3       | 103       | 80-115       |            |
| Chloroethane                | ug/L  | 50          | 38.0       | 76        | 46-133       |            |
| Chloroform                  | ug/L  | 50          | 51.4       | 103       | 75-117       |            |
| Chloromethane               | ug/L  | 50          | 32.3       | 65        | 33-124       |            |
| cis-1,2-Dichloroethene      | ug/L  | 50          | 50.9       | 102       | 76-120       |            |
| cis-1,3-Dichloropropene     | ug/L  | 50          | <100       | 110       | 73-130       |            |
| Cyclohexane                 | ug/L  | 50          | 54.7       | 109       | 58-122       | N2         |
| Dibromochloromethane        | ug/L  | 50          | 48.2       | 96        | 69-124       |            |
| Dibromomethane              | ug/L  | 50          | 50.8       | 102       | 76-124       |            |
| Dichlorodifluoromethane     | ug/L  | 50          | 21.2       | 42        | 36-145       |            |
| Diethyl ether (Ethyl ether) | ug/L  | 50          | 51.7       | 103       | 70-130       |            |
| Ethylbenzene                | ug/L  | 50          | 53.4       | 107       | 78-120       |            |
| Iodomethane                 | ug/L  | 100         | 64.8       | 65        | 10-184       |            |
| Isopropylbenzene (Cumene)   | ug/L  | 50          | 58.8       | 118       | 82-122       |            |
| m&p-Xylene                  | ug/L  | 100         | 109        | 109       | 79-118       |            |
| Methyl-tert-butyl ether     | ug/L  | 50          | 51.7       | 103       | 79-125       |            |
| Methylene Chloride          | ug/L  | 50          | 51.0       | 102       | 68-126       |            |
| n-Butylbenzene              | ug/L  | 50          | 54.8       | 110       | 73-123       |            |
| n-Propylbenzene             | ug/L  | 50          | <100       | 110       | 75-119       |            |
| Naphthalene                 | ug/L  | 50          | 49.9       | 100       | 70-130       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale

Pace Project No.: 50254306

LABORATORY CONTROL SAMPLE: 2568932

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| o-Xylene                    | ug/L  | 50          | 54.6       | 109       | 78-121       |            |
| p-Isopropyltoluene          | ug/L  | 50          | 53.5       | 107       | 82-119       |            |
| sec-Butylbenzene            | ug/L  | 50          | 53.9       | 108       | 79-119       |            |
| Styrene                     | ug/L  | 50          | 54.8       | 110       | 80-121       |            |
| tert-Butyl Alcohol          | ug/L  | 100         | 96.6       | 97        | 10-200       |            |
| tert-Butylbenzene           | ug/L  | 50          | 40.8       | 82        | 58-106       |            |
| Tetrachloroethene           | ug/L  | 50          | 52.9       | 106       | 70-123       |            |
| Tetrahydrofuran             | ug/L  | 50          | <90.0      | 90        | 50-150       | N2         |
| Toluene                     | ug/L  | 50          | 51.1       | 102       | 72-114       |            |
| trans-1,2-Dichloroethene    | ug/L  | 50          | 56.3       | 113       | 79-126       |            |
| trans-1,3-Dichloropropene   | ug/L  | 50          | <100       | 101       | 68-122       |            |
| trans-1,4-Dichloro-2-butene | ug/L  | 200         | 201        | 100       | 34-130       |            |
| Trichloroethene             | ug/L  | 50          | 55.4       | 111       | 78-120       |            |
| Trichlorofluoromethane      | ug/L  | 50          | 58.3       | 117       | 57-156       |            |
| Vinyl chloride              | ug/L  | 50          | 38.7       | 77        | 55-122       |            |
| 4-Bromofluorobenzene (S)    | %     |             |            | 117       | 85-116       | S0         |
| Dibromofluoromethane (S)    | %     |             |            | 101       | 75-120       |            |
| Toluene-d8 (S)              | %     |             |            | 99        | 83-111       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

QC Batch: 556983      Analysis Method: EPA 5030B/8260  
QC Batch Method: EPA 5030B/8260      Analysis Description: 8260 MSV Low Level  
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50254306001

METHOD BLANK: 2568935      Matrix: Water  
Associated Lab Samples: 50254306001

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:33 |            |
| 1,1,1-Trichloroethane       | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:33 |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:33 |            |
| 1,1,2-Trichloroethane       | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:33 |            |
| 1,1-Dichloroethane          | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:33 |            |
| 1,1-Dichloroethene          | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:33 |            |
| 1,2,3-Trichlorobenzene      | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:33 |            |
| 1,2,3-Trichloropropane      | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:33 |            |
| 1,2,3-Trimethylbenzene      | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:33 | N2         |
| 1,2,4-Trichlorobenzene      | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:33 |            |
| 1,2,4-Trimethylbenzene      | ug/L  | <1.0         | 5.0             | 1.0  | 04/14/20 12:33 |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | <0.25        | 0.50            | 0.25 | 04/14/20 12:33 |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | <0.23        | 0.50            | 0.23 | 04/14/20 12:33 |            |
| 1,2-Dichlorobenzene         | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:33 |            |
| 1,2-Dichloroethane          | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:33 |            |
| 1,2-Dichloropropane         | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:33 |            |
| 1,3,5-Trimethylbenzene      | ug/L  | <1.0         | 5.0             | 1.0  | 04/14/20 12:33 |            |
| 1,3-Dichlorobenzene         | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:33 |            |
| 1,4-Dichlorobenzene         | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:33 |            |
| 2-Butanone (MEK)            | ug/L  | <25.0        | 25.0            | 25.0 | 04/14/20 12:33 |            |
| 2-Hexanone                  | ug/L  | <50.0        | 50.0            | 50.0 | 04/14/20 12:33 |            |
| 2-Methylnaphthalene         | ug/L  | <5.0         | 20.0            | 5.0  | 04/14/20 12:33 | N2         |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | <50.0        | 50.0            | 50.0 | 04/14/20 12:33 |            |
| Acetone                     | ug/L  | <50.0        | 50.0            | 50.0 | 04/14/20 12:33 |            |
| Acrylonitrile               | ug/L  | <2.0         | 2.0             | 2.0  | 04/14/20 12:33 |            |
| Benzene                     | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:33 |            |
| Bromobenzene                | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:33 |            |
| Bromochloromethane          | ug/L  | <0.22        | 1.0             | 0.22 | 04/14/20 12:33 |            |
| Bromodichloromethane        | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:33 |            |
| Bromoform                   | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:33 |            |
| Bromomethane                | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:33 |            |
| Carbon disulfide            | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:33 |            |
| Carbon tetrachloride        | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:33 |            |
| Chlorobenzene               | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:33 |            |
| Chloroethane                | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:33 |            |
| Chloroform                  | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:33 |            |
| Chloromethane               | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:33 |            |
| cis-1,2-Dichloroethene      | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:33 |            |
| cis-1,3-Dichloropropene     | ug/L  | <100         | 100             | 100  | 04/14/20 12:33 |            |
| Cyclohexane                 | ug/L  | <10.0        | 10.0            | 10.0 | 04/14/20 12:33 | N2         |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

METHOD BLANK: 2568935 Matrix: Water  
Associated Lab Samples: 50254306001

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| Dibromochloromethane        | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:33 |            |
| Dibromomethane              | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:33 |            |
| Dichlorodifluoromethane     | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:33 |            |
| Diethyl ether (Ethyl ether) | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:33 |            |
| Diisopropyl ether           | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:33 | N2         |
| Ethyl-tert-butyl ether      | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:33 | N2         |
| Ethylbenzene                | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:33 |            |
| Hexachloroethane            | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:33 | N2         |
| Iodomethane                 | ug/L  | <0.51        | 5.0             | 0.51 | 04/14/20 12:33 |            |
| Isopropylbenzene (Cumene)   | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:33 |            |
| m&p-Xylene                  | ug/L  | <0.24        | 2.0             | 0.24 | 04/14/20 12:33 |            |
| Methyl-tert-butyl ether     | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:33 |            |
| Methylene Chloride          | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:33 |            |
| n-Butylbenzene              | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:33 |            |
| n-Propylbenzene             | ug/L  | <100         | 100             | 100  | 04/14/20 12:33 |            |
| Naphthalene                 | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:33 |            |
| o-Xylene                    | ug/L  | <0.16        | 1.0             | 0.16 | 04/14/20 12:33 |            |
| p-Isopropyltoluene          | ug/L  | <0.11        | 1.0             | 0.11 | 04/14/20 12:33 |            |
| sec-Butylbenzene            | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:33 |            |
| Styrene                     | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:33 |            |
| tert-Amylmethyl ether       | ug/L  | <5.0         | 5.0             | 5.0  | 04/14/20 12:33 | N2         |
| tert-Butyl Alcohol          | ug/L  | <50.0        | 50.0            | 50.0 | 04/14/20 12:33 |            |
| tert-Butylbenzene           | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:33 |            |
| Tetrachloroethane           | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:33 |            |
| Tetrahydrofuran             | ug/L  | <90.0        | 90.0            | 90.0 | 04/14/20 12:33 | N2         |
| Toluene                     | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:33 |            |
| trans-1,2-Dichloroethane    | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:33 |            |
| trans-1,3-Dichloropropene   | ug/L  | <100         | 100             | 100  | 04/14/20 12:33 |            |
| trans-1,4-Dichloro-2-butene | ug/L  | <0.40        | 100             | 0.40 | 04/14/20 12:33 |            |
| Trichloroethene             | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:33 |            |
| Trichlorofluoromethane      | ug/L  | <1.0         | 2.0             | 1.0  | 04/14/20 12:33 |            |
| Vinyl chloride              | ug/L  | <1.0         | 1.0             | 1.0  | 04/14/20 12:33 |            |
| 4-Bromofluorobenzene (S)    | %     | 112          | 85-116          |      | 04/14/20 12:33 |            |
| Dibromofluoromethane (S)    | %     | 98           | 75-120          |      | 04/14/20 12:33 |            |
| Toluene-d8 (S)              | %     | 96           | 83-111          |      | 04/14/20 12:33 |            |

LABORATORY CONTROL SAMPLE: 2568936

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/L  | 50          | 47.3       | 95        | 78-120       |            |
| 1,1,1-Trichloroethane     | ug/L  | 50          | 54.3       | 109       | 78-130       |            |
| 1,1,2,2-Tetrachloroethane | ug/L  | 50          | 44.6       | 89        | 64-126       |            |
| 1,1,2-Trichloroethane     | ug/L  | 50          | 44.9       | 90        | 73-125       |            |
| 1,1-Dichloroethane        | ug/L  | 50          | 51.2       | 102       | 77-123       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

LABORATORY CONTROL SAMPLE: 2568936

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1-Dichloroethene          | ug/L  | 50          | 51.5       | 103       | 79-128       |            |
| 1,2,3-Trichlorobenzene      | ug/L  | 50          | 51.4       | 103       | 75-126       |            |
| 1,2,3-Trichloropropane      | ug/L  | 50          | 45.5       | 91        | 71-131       |            |
| 1,2,4-Trichlorobenzene      | ug/L  | 50          | 52.6       | 105       | 76-130       |            |
| 1,2,4-Trimethylbenzene      | ug/L  | 50          | 50.9       | 102       | 76-119       |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | 50          | 45.9       | 92        | 71-133       |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | 50          | 45.1       | 90        | 76-122       |            |
| 1,2-Dichlorobenzene         | ug/L  | 50          | 46.5       | 93        | 79-113       |            |
| 1,2-Dichloroethane          | ug/L  | 50          | 48.7       | 97        | 66-127       |            |
| 1,2-Dichloropropane         | ug/L  | 50          | 51.9       | 104       | 75-127       |            |
| 1,3,5-Trimethylbenzene      | ug/L  | 50          | 51.6       | 103       | 78-116       |            |
| 1,3-Dichlorobenzene         | ug/L  | 50          | 48.2       | 96        | 79-120       |            |
| 1,4-Dichlorobenzene         | ug/L  | 50          | 46.9       | 94        | 77-117       |            |
| 2-Butanone (MEK)            | ug/L  | 250         | 206        | 82        | 61-138       |            |
| 2-Hexanone                  | ug/L  | 250         | 209        | 83        | 58-138       |            |
| 2-Methylnaphthalene         | ug/L  | 50          | 48.1       | 96        | 60-136       | N2         |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | 250         | 201        | 80        | 60-131       |            |
| Acetone                     | ug/L  | 250         | 226        | 91        | 57-126       |            |
| Acrylonitrile               | ug/L  | 200         | 157        | 79        | 65-127       |            |
| Benzene                     | ug/L  | 50          | 50.2       | 100       | 75-118       |            |
| Bromobenzene                | ug/L  | 50          | 54.5       | 109       | 68-127       |            |
| Bromochloromethane          | ug/L  | 50          | 41.9       | 84        | 66-126       |            |
| Bromodichloromethane        | ug/L  | 50          | 49.2       | 98        | 75-120       |            |
| Bromoform                   | ug/L  | 50          | 41.4       | 83        | 61-119       |            |
| Bromomethane                | ug/L  | 50          | 47.7       | 95        | 12-184       |            |
| Carbon disulfide            | ug/L  | 50          | 48.4       | 97        | 71-123       |            |
| Carbon tetrachloride        | ug/L  | 50          | 49.8       | 100       | 73-125       |            |
| Chlorobenzene               | ug/L  | 50          | 48.5       | 97        | 80-115       |            |
| Chloroethane                | ug/L  | 50          | 40.0       | 80        | 46-133       |            |
| Chloroform                  | ug/L  | 50          | 46.9       | 94        | 75-117       |            |
| Chloromethane               | ug/L  | 50          | 26.9       | 54        | 33-124       |            |
| cis-1,2-Dichloroethene      | ug/L  | 50          | 50.2       | 100       | 76-120       |            |
| cis-1,3-Dichloropropene     | ug/L  | 50          | <100       | 99        | 73-130       |            |
| Cyclohexane                 | ug/L  | 50          | 50.6       | 101       | 58-122       | N2         |
| Dibromochloromethane        | ug/L  | 50          | 44.9       | 90        | 69-124       |            |
| Dibromomethane              | ug/L  | 50          | 47.8       | 96        | 76-124       |            |
| Dichlorodifluoromethane     | ug/L  | 50          | 19.7       | 39        | 36-145       |            |
| Diethyl ether (Ethyl ether) | ug/L  | 50          | 47.9       | 96        | 70-130       |            |
| Ethylbenzene                | ug/L  | 50          | 50.0       | 100       | 78-120       |            |
| Iodomethane                 | ug/L  | 100         | 62.5       | 62        | 10-184       |            |
| Isopropylbenzene (Cumene)   | ug/L  | 50          | 55.3       | 111       | 82-122       |            |
| m&p-Xylene                  | ug/L  | 100         | 104        | 104       | 79-118       |            |
| Methyl-tert-butyl ether     | ug/L  | 50          | 47.8       | 96        | 79-125       |            |
| Methylene Chloride          | ug/L  | 50          | 51.2       | 102       | 68-126       |            |
| n-Butylbenzene              | ug/L  | 50          | 53.6       | 107       | 73-123       |            |
| n-Propylbenzene             | ug/L  | 50          | <100       | 106       | 75-119       |            |
| Naphthalene                 | ug/L  | 50          | 45.8       | 92        | 70-130       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale

Pace Project No.: 50254306

LABORATORY CONTROL SAMPLE: 2568936

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| o-Xylene                    | ug/L  | 50          | 52.5       | 105       | 78-121       |            |
| p-Isopropyltoluene          | ug/L  | 50          | 52.6       | 105       | 82-119       |            |
| sec-Butylbenzene            | ug/L  | 50          | 53.1       | 106       | 79-119       |            |
| Styrene                     | ug/L  | 50          | 51.5       | 103       | 80-121       |            |
| tert-Butyl Alcohol          | ug/L  | 100         | 101        | 101       | 10-200       |            |
| tert-Butylbenzene           | ug/L  | 50          | 38.8       | 78        | 58-106       |            |
| Tetrachloroethene           | ug/L  | 50          | 50.5       | 101       | 70-123       |            |
| Tetrahydrofuran             | ug/L  | 50          | <90.0      | 90        | 50-150       | N2         |
| Toluene                     | ug/L  | 50          | 46.4       | 93        | 72-114       |            |
| trans-1,2-Dichloroethene    | ug/L  | 50          | 49.3       | 99        | 79-126       |            |
| trans-1,3-Dichloropropene   | ug/L  | 50          | <100       | 96        | 68-122       |            |
| trans-1,4-Dichloro-2-butene | ug/L  | 200         | 232        | 116       | 34-130       |            |
| Trichloroethene             | ug/L  | 50          | 51.4       | 103       | 78-120       |            |
| Trichlorofluoromethane      | ug/L  | 50          | 52.2       | 104       | 57-156       |            |
| Vinyl chloride              | ug/L  | 50          | 36.6       | 73        | 55-122       |            |
| 4-Bromofluorobenzene (S)    | %     |             |            | 116       | 85-116       |            |
| Dibromofluoromethane (S)    | %     |             |            | 97        | 75-120       |            |
| Toluene-d8 (S)              | %     |             |            | 98        | 83-111       |            |

MATRIX SPIKE SAMPLE: 2569137

| Parameter                   | Units | 50254208002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/L  | ND                 | 50          | 49.5      | 99       | 51-135       |            |
| 1,1,1-Trichloroethane       | ug/L  | ND                 | 50          | 57.0      | 114      | 56-144       |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | ND                 | 50          | 46.4      | 93       | 47-137       |            |
| 1,1,2-Trichloroethane       | ug/L  | ND                 | 50          | 46.4      | 93       | 55-136       |            |
| 1,1-Dichloroethane          | ug/L  | ND                 | 50          | 53.5      | 107      | 53-140       |            |
| 1,1-Dichloroethene          | ug/L  | ND                 | 50          | 55.1      | 110      | 60-140       |            |
| 1,2,3-Trichlorobenzene      | ug/L  | ND                 | 50          | 48.1      | 96       | 35-140       |            |
| 1,2,3-Trichloropropane      | ug/L  | ND                 | 50          | 47.1      | 94       | 54-142       |            |
| 1,2,4-Trichlorobenzene      | ug/L  | ND                 | 50          | 48.8      | 98       | 31-143       |            |
| 1,2,4-Trimethylbenzene      | ug/L  | ND                 | 50          | 51.1      | 102      | 13-152       |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | ND                 | 50          | 47.5      | 95       | 29-145       |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                 | 50          | 46.9      | 94       | 56-136       |            |
| 1,2-Dichlorobenzene         | ug/L  | ND                 | 50          | 47.1      | 94       | 38-133       |            |
| 1,2-Dichloroethane          | ug/L  | ND                 | 50          | 50.7      | 101      | 46-145       |            |
| 1,2-Dichloropropane         | ug/L  | ND                 | 50          | 54.0      | 108      | 55-141       |            |
| 1,3,5-Trimethylbenzene      | ug/L  | ND                 | 50          | 50.6      | 101      | 23-145       |            |
| 1,3-Dichlorobenzene         | ug/L  | ND                 | 50          | 47.3      | 95       | 31-144       |            |
| 1,4-Dichlorobenzene         | ug/L  | ND                 | 50          | 46.8      | 94       | 31-138       |            |
| 2-Butanone (MEK)            | ug/L  | ND                 | 250         | 222       | 89       | 42-150       |            |
| 2-Hexanone                  | ug/L  | ND                 | 250         | 230       | 92       | 43-146       |            |
| 2-Methylnaphthalene         | ug/L  | ND                 | 50          | 43.9      | 88       | 32-142       | N2         |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | ND                 | 250         | 215       | 86       | 42-142       |            |
| Acetone                     | ug/L  | ND                 | 250         | 227       | 91       | 36-142       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale

Pace Project No.: 50254306

| MATRIX SPIKE SAMPLE: 2569137 |       | 50254208002 | Spike | MS     | MS    | % Rec  |            |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter                    | Units | Result      | Conc. | Result | % Rec | Limits | Qualifiers |
| Acrylonitrile                | ug/L  | ND          | 200   | 173    | 86    | 48-137 |            |
| Benzene                      | ug/L  | ND          | 50    | 53.8   | 108   | 49-135 |            |
| Bromobenzene                 | ug/L  | ND          | 50    | 57.7   | 115   | 37-144 |            |
| Bromochloromethane           | ug/L  | ND          | 50    | 45.4   | 91    | 47-140 |            |
| Bromodichloromethane         | ug/L  | ND          | 50    | 51.6   | 103   | 55-133 |            |
| Bromoform                    | ug/L  | ND          | 50    | 40.9   | 82    | 45-125 |            |
| Bromomethane                 | ug/L  | ND          | 50    | 36.3   | 73    | 10-191 |            |
| Carbon disulfide             | ug/L  | ND          | 50    | 50.4   | 101   | 49-136 |            |
| Carbon tetrachloride         | ug/L  | ND          | 50    | 53.7   | 107   | 55-134 |            |
| Chlorobenzene                | ug/L  | ND          | 50    | 50.2   | 100   | 42-135 |            |
| Chloroethane                 | ug/L  | ND          | 50    | 42.8   | 86    | 25-154 |            |
| Chloroform                   | ug/L  | ND          | 50    | 49.8   | 100   | 57-130 |            |
| Chloromethane                | ug/L  | ND          | 50    | 28.4   | 57    | 17-129 |            |
| cis-1,2-Dichloroethene       | ug/L  | ND          | 50    | 51.7   | 103   | 53-134 |            |
| cis-1,3-Dichloropropene      | ug/L  | ND          | 50    | <100   | 98    | 50-136 |            |
| Cyclohexane                  | ug/L  | ND          | 50    | 52.9   | 106   | 33-130 | N2         |
| Dibromochloromethane         | ug/L  | ND          | 50    | 46.6   | 93    | 53-133 |            |
| Dibromomethane               | ug/L  | ND          | 50    | 49.3   | 99    | 57-139 |            |
| Dichlorodifluoromethane      | ug/L  | ND          | 50    | 22.1   | 44    | 21-154 |            |
| Diethyl ether (Ethyl ether)  | ug/L  | ND          | 50    | 50.3   | 101   | 70-130 |            |
| Ethylbenzene                 | ug/L  | ND          | 50    | 52.6   | 105   | 28-147 |            |
| Iodomethane                  | ug/L  | ND          | 100   | 41.3   | 41    | 10-186 |            |
| Isopropylbenzene (Cumene)    | ug/L  | ND          | 50    | 57.3   | 115   | 27-151 |            |
| m&p-Xylene                   | ug/L  | ND          | 100   | 108    | 108   | 28-145 |            |
| Methyl-tert-butyl ether      | ug/L  | ND          | 50    | 50.2   | 100   | 60-142 |            |
| Methylene Chloride           | ug/L  | ND          | 50    | 51.7   | 103   | 46-138 |            |
| n-Butylbenzene               | ug/L  | ND          | 50    | 50.7   | 101   | 10-153 |            |
| n-Propylbenzene              | ug/L  | ND          | 50    | <100   | 104   | 20-149 |            |
| Naphthalene                  | ug/L  | ND          | 50    | 45.8   | 92    | 41-139 |            |
| o-Xylene                     | ug/L  | ND          | 50    | 54.4   | 109   | 31-145 |            |
| p-Isopropyltoluene           | ug/L  | ND          | 50    | 50.8   | 102   | 15-155 |            |
| sec-Butylbenzene             | ug/L  | ND          | 50    | 51.3   | 103   | 17-153 |            |
| Styrene                      | ug/L  | ND          | 50    | 8.3    | 17    | 42-139 | M1         |
| tert-Butyl Alcohol           | ug/L  | ND          | 100   | 97.5   | 97    | 10-170 |            |
| tert-Butylbenzene            | ug/L  | ND          | 50    | 38.7   | 77    | 18-123 |            |
| Tetrachloroethene            | ug/L  | ND          | 50    | 51.3   | 103   | 32-140 |            |
| Tetrahydrofuran              | ug/L  | ND          | 50    | <90.0  | 95    | 50-150 | N2         |
| Toluene                      | ug/L  | ND          | 50    | 48.2   | 96    | 42-131 |            |
| trans-1,2-Dichloroethene     | ug/L  | ND          | 50    | 53.2   | 106   | 57-138 |            |
| trans-1,3-Dichloropropene    | ug/L  | ND          | 50    | <100   | 94    | 47-128 |            |
| trans-1,4-Dichloro-2-butene  | ug/L  | ND          | 200   | 241    | 121   | 10-135 |            |
| Trichloroethene              | ug/L  | ND          | 50    | 53.4   | 107   | 47-137 |            |
| Trichlorofluoromethane       | ug/L  | ND          | 50    | 56.8   | 114   | 42-163 |            |
| Vinyl chloride               | ug/L  | ND          | 50    | 40.5   | 81    | 36-136 |            |
| 4-Bromofluorobenzene (S)     | %     |             |       |        | 116   | 85-116 |            |
| Dibromofluoromethane (S)     | %     |             |       |        | 99    | 75-120 |            |
| Toluene-d8 (S)               | %     |             |       |        | 96    | 83-111 |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

SAMPLE DUPLICATE: 2569136

| Parameter                   | Units | 50254208001<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|-----------------------------|-------|-----------------------|---------------|-----|------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,1,1-Trichloroethane       | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,1,2-Trichloroethane       | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,1-Dichloroethane          | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,1-Dichloroethene          | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,2,3-Trichlorobenzene      | ug/L  | ND                    | <5.0          |     | 20         |            |
| 1,2,3-Trichloropropane      | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,2,3-Trimethylbenzene      | ug/L  | ND                    | <5.0          |     | 20         | N2         |
| 1,2,4-Trichlorobenzene      | ug/L  | ND                    | <5.0          |     | 20         |            |
| 1,2,4-Trimethylbenzene      | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | ND                    | <0.25         |     | 20         |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                    | <0.23         |     | 20         |            |
| 1,2-Dichlorobenzene         | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,2-Dichloroethane          | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,2-Dichloropropane         | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,3,5-Trimethylbenzene      | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,3-Dichlorobenzene         | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,4-Dichlorobenzene         | ug/L  | ND                    | <1.0          |     | 20         |            |
| 2-Butanone (MEK)            | ug/L  | ND                    | <25.0         |     | 20         |            |
| 2-Hexanone                  | ug/L  | ND                    | <50.0         |     | 20         |            |
| 2-Methylnaphthalene         | ug/L  | ND                    | <5.0          |     | 20         | N2         |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | ND                    | <50.0         |     | 20         |            |
| Acetone                     | ug/L  | ND                    | <50.0         |     | 20         |            |
| Acrylonitrile               | ug/L  | ND                    | <2.0          |     | 20         |            |
| Benzene                     | ug/L  | ND                    | <1.0          |     | 20         |            |
| Bromobenzene                | ug/L  | ND                    | <1.0          |     | 20         |            |
| Bromochloromethane          | ug/L  | ND                    | <0.22         |     | 20         |            |
| Bromodichloromethane        | ug/L  | ND                    | <1.0          |     | 20         |            |
| Bromoform                   | ug/L  | ND                    | <1.0          |     | 20         |            |
| Bromomethane                | ug/L  | ND                    | <5.0          |     | 20         |            |
| Carbon disulfide            | ug/L  | ND                    | <5.0          |     | 20         |            |
| Carbon tetrachloride        | ug/L  | ND                    | <1.0          |     | 20         |            |
| Chlorobenzene               | ug/L  | ND                    | <1.0          |     | 20         |            |
| Chloroethane                | ug/L  | ND                    | <5.0          |     | 20         |            |
| Chloroform                  | ug/L  | ND                    | <1.0          |     | 20         |            |
| Chloromethane               | ug/L  | ND                    | <5.0          |     | 20         |            |
| cis-1,2-Dichloroethene      | ug/L  | ND                    | <1.0          |     | 20         |            |
| cis-1,3-Dichloropropene     | ug/L  | ND                    | <100          |     | 20         |            |
| Cyclohexane                 | ug/L  | ND                    | <10.0         |     | 20         | N2         |
| Dibromochloromethane        | ug/L  | ND                    | <5.0          |     | 20         |            |
| Dibromomethane              | ug/L  | ND                    | <5.0          |     | 20         |            |
| Dichlorodifluoromethane     | ug/L  | ND                    | <5.0          |     | 20         |            |
| Diethyl ether (Ethyl ether) | ug/L  | ND                    | <5.0          |     | 20         |            |
| Diisopropyl ether           | ug/L  | ND                    | <5.0          |     | 20         | N2         |
| Ethyl-tert-butyl ether      | ug/L  | ND                    | <5.0          |     | 20         | N2         |
| Ethylbenzene                | ug/L  | ND                    | <1.0          |     | 20         |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

SAMPLE DUPLICATE: 2569136

| Parameter                   | Units | 50254208001<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|-----------------------------|-------|-----------------------|---------------|-----|------------|------------|
| Hexachloroethane            | ug/L  | ND                    | <5.0          |     | 20         | N2         |
| Iodomethane                 | ug/L  | ND                    | <0.51         |     | 20         |            |
| Isopropylbenzene (Cumene)   | ug/L  | ND                    | <5.0          |     | 20         |            |
| m&p-Xylene                  | ug/L  | ND                    | <0.24         |     | 20         |            |
| Methyl-tert-butyl ether     | ug/L  | ND                    | <5.0          |     | 20         |            |
| Methylene Chloride          | ug/L  | ND                    | <5.0          |     | 20         |            |
| n-Butylbenzene              | ug/L  | ND                    | <1.0          |     | 20         |            |
| n-Propylbenzene             | ug/L  | ND                    | <100          |     | 20         |            |
| Naphthalene                 | ug/L  | ND                    | <5.0          |     | 20         |            |
| o-Xylene                    | ug/L  | ND                    | <0.16         |     | 20         |            |
| p-Isopropyltoluene          | ug/L  | ND                    | <0.11         |     | 20         |            |
| sec-Butylbenzene            | ug/L  | ND                    | <1.0          |     | 20         |            |
| Styrene                     | ug/L  | ND                    | <1.0          |     | 20         |            |
| tert-Amylmethyl ether       | ug/L  | ND                    | <5.0          |     | 20         | N2         |
| tert-Butyl Alcohol          | ug/L  | ND                    | <50.0         |     | 20         |            |
| tert-Butylbenzene           | ug/L  | ND                    | <1.0          |     | 20         |            |
| Tetrachloroethene           | ug/L  | ND                    | <1.0          |     | 20         |            |
| Tetrahydrofuran             | ug/L  | ND                    | <90.0         |     | 20         | N2         |
| Toluene                     | ug/L  | ND                    | <1.0          |     | 20         |            |
| trans-1,2-Dichloroethene    | ug/L  | ND                    | <1.0          |     | 20         |            |
| trans-1,3-Dichloropropene   | ug/L  | ND                    | <100          |     | 20         |            |
| trans-1,4-Dichloro-2-butene | ug/L  | ND                    | <0.40         |     | 20         |            |
| Trichloroethene             | ug/L  | ND                    | <1.0          |     | 20         |            |
| Trichlorofluoromethane      | ug/L  | ND                    | <1.0          |     | 20         |            |
| Vinyl chloride              | ug/L  | ND                    | <1.0          |     | 20         |            |
| 4-Bromofluorobenzene (S)    | %     | 108                   | 112           |     |            |            |
| Dibromofluoromethane (S)    | %     | 87                    | 98            |     |            |            |
| Toluene-d8 (S)              | %     | 97                    | 97            |     |            |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

QC Batch: 557020 Analysis Method: EPA 5030B/8260  
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Low Level  
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50254306005, 50254306006, 50254306007, 50254306008

METHOD BLANK: 2569143 Matrix: Water  
Associated Lab Samples: 50254306005, 50254306006, 50254306007, 50254306008

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:16 |            |
| 1,1,1-Trichloroethane       | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:16 |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:16 |            |
| 1,1,2-Trichloroethane       | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:16 |            |
| 1,1-Dichloroethane          | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:16 |            |
| 1,1-Dichloroethene          | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:16 |            |
| 1,2,3-Trichlorobenzene      | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:16 |            |
| 1,2,3-Trichloropropane      | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:16 |            |
| 1,2,3-Trimethylbenzene      | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:16 | N2         |
| 1,2,4-Trichlorobenzene      | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:16 |            |
| 1,2,4-Trimethylbenzene      | ug/L  | <1.0         | 5.0             | 1.0  | 04/15/20 00:16 |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | <0.25        | 0.50            | 0.25 | 04/15/20 00:16 |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | <0.23        | 0.50            | 0.23 | 04/15/20 00:16 |            |
| 1,2-Dichlorobenzene         | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:16 |            |
| 1,2-Dichloroethane          | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:16 |            |
| 1,2-Dichloropropane         | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:16 |            |
| 1,3,5-Trimethylbenzene      | ug/L  | <1.0         | 5.0             | 1.0  | 04/15/20 00:16 |            |
| 1,3-Dichlorobenzene         | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:16 |            |
| 1,4-Dichlorobenzene         | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:16 |            |
| 2-Butanone (MEK)            | ug/L  | <25.0        | 25.0            | 25.0 | 04/15/20 00:16 |            |
| 2-Hexanone                  | ug/L  | <50.0        | 50.0            | 50.0 | 04/15/20 00:16 |            |
| 2-Methylnaphthalene         | ug/L  | <5.0         | 20.0            | 5.0  | 04/15/20 00:16 | N2         |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | <50.0        | 50.0            | 50.0 | 04/15/20 00:16 |            |
| Acetone                     | ug/L  | <50.0        | 50.0            | 50.0 | 04/15/20 00:16 |            |
| Acrylonitrile               | ug/L  | <2.0         | 2.0             | 2.0  | 04/15/20 00:16 |            |
| Benzene                     | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:16 |            |
| Bromobenzene                | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:16 |            |
| Bromochloromethane          | ug/L  | <0.59        | 1.0             | 0.59 | 04/15/20 00:16 |            |
| Bromodichloromethane        | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:16 |            |
| Bromoform                   | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:16 |            |
| Bromomethane                | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:16 |            |
| Carbon disulfide            | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:16 |            |
| Carbon tetrachloride        | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:16 |            |
| Chlorobenzene               | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:16 |            |
| Chloroethane                | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:16 |            |
| Chloroform                  | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:16 |            |
| Chloromethane               | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:16 |            |
| cis-1,2-Dichloroethene      | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:16 |            |
| cis-1,3-Dichloropropene     | ug/L  | <100         | 100             | 100  | 04/15/20 00:16 |            |
| Cyclohexane                 | ug/L  | <10.0        | 10.0            | 10.0 | 04/15/20 00:16 | N2         |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

METHOD BLANK: 2569143 Matrix: Water  
Associated Lab Samples: 50254306005, 50254306006, 50254306007, 50254306008

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| Dibromochloromethane        | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:16 |            |
| Dibromomethane              | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:16 |            |
| Dichlorodifluoromethane     | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:16 |            |
| Diethyl ether (Ethyl ether) | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:16 |            |
| Diisopropyl ether           | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:16 | N2         |
| Ethyl-tert-butyl ether      | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:16 | N2         |
| Ethylbenzene                | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:16 |            |
| Hexachloroethane            | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:16 | N2         |
| Iodomethane                 | ug/L  | <0.45        | 5.0             | 0.45 | 04/15/20 00:16 |            |
| Isopropylbenzene (Cumene)   | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:16 |            |
| m&p-Xylene                  | ug/L  | <0.16        | 2.0             | 0.16 | 04/15/20 00:16 |            |
| Methyl-tert-butyl ether     | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:16 |            |
| Methylene Chloride          | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:16 |            |
| n-Butylbenzene              | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:16 |            |
| n-Propylbenzene             | ug/L  | <100         | 100             | 100  | 04/15/20 00:16 |            |
| Naphthalene                 | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:16 |            |
| o-Xylene                    | ug/L  | <0.39        | 1.0             | 0.39 | 04/15/20 00:16 |            |
| p-Isopropyltoluene          | ug/L  | <0.28        | 1.0             | 0.28 | 04/15/20 00:16 |            |
| sec-Butylbenzene            | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:16 |            |
| Styrene                     | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:16 |            |
| tert-Amylmethyl ether       | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:16 | N2         |
| tert-Butyl Alcohol          | ug/L  | <50.0        | 50.0            | 50.0 | 04/15/20 00:16 |            |
| tert-Butylbenzene           | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:16 |            |
| Tetrachloroethane           | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:16 |            |
| Tetrahydrofuran             | ug/L  | <90.0        | 90.0            | 90.0 | 04/15/20 00:16 | N2         |
| Toluene                     | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:16 |            |
| trans-1,2-Dichloroethane    | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:16 |            |
| trans-1,3-Dichloropropene   | ug/L  | <100         | 100             | 100  | 04/15/20 00:16 |            |
| trans-1,4-Dichloro-2-butene | ug/L  | <0.82        | 100             | 0.82 | 04/15/20 00:16 |            |
| Trichloroethene             | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:16 |            |
| Trichlorofluoromethane      | ug/L  | <1.0         | 2.0             | 1.0  | 04/15/20 00:16 |            |
| Vinyl chloride              | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:16 |            |
| 4-Bromofluorobenzene (S)    | %     | 110          | 85-116          |      | 04/15/20 00:16 |            |
| Dibromofluoromethane (S)    | %     | 98           | 75-120          |      | 04/15/20 00:16 |            |
| Toluene-d8 (S)              | %     | 97           | 83-111          |      | 04/15/20 00:16 |            |

LABORATORY CONTROL SAMPLE: 2569144

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/L  | 50          | 48.7       | 97        | 78-120       |            |
| 1,1,1-Trichloroethane     | ug/L  | 50          | 57.6       | 115       | 78-130       |            |
| 1,1,2,2-Tetrachloroethane | ug/L  | 50          | 47.2       | 94        | 64-126       |            |
| 1,1,2-Trichloroethane     | ug/L  | 50          | 47.8       | 96        | 73-125       |            |
| 1,1-Dichloroethane        | ug/L  | 50          | 57.8       | 116       | 77-123       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

LABORATORY CONTROL SAMPLE: 2569144

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1-Dichloroethene          | ug/L  | 50          | 55.1       | 110       | 79-128       |            |
| 1,2,3-Trichlorobenzene      | ug/L  | 50          | 51.5       | 103       | 75-126       |            |
| 1,2,3-Trichloropropane      | ug/L  | 50          | 51.5       | 103       | 71-131       |            |
| 1,2,4-Trichlorobenzene      | ug/L  | 50          | 52.1       | 104       | 76-130       |            |
| 1,2,4-Trimethylbenzene      | ug/L  | 50          | 53.4       | 107       | 76-119       |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | 50          | 50.6       | 101       | 71-133       |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | 50          | 49.2       | 98        | 76-122       |            |
| 1,2-Dichlorobenzene         | ug/L  | 50          | 47.3       | 95        | 79-113       |            |
| 1,2-Dichloroethane          | ug/L  | 50          | 52.5       | 105       | 66-127       |            |
| 1,2-Dichloropropane         | ug/L  | 50          | 55.4       | 111       | 75-127       |            |
| 1,3,5-Trimethylbenzene      | ug/L  | 50          | 52.9       | 106       | 78-116       |            |
| 1,3-Dichlorobenzene         | ug/L  | 50          | 49.4       | 99        | 79-120       |            |
| 1,4-Dichlorobenzene         | ug/L  | 50          | 46.6       | 93        | 77-117       |            |
| 2-Butanone (MEK)            | ug/L  | 250         | 224        | 90        | 61-138       |            |
| 2-Hexanone                  | ug/L  | 250         | 235        | 94        | 58-138       |            |
| 2-Methylnaphthalene         | ug/L  | 50          | 50.3       | 101       | 60-136       | N2         |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | 250         | 222        | 89        | 60-131       |            |
| Acetone                     | ug/L  | 250         | 245        | 98        | 57-126       |            |
| Acrylonitrile               | ug/L  | 200         | 187        | 93        | 65-127       |            |
| Benzene                     | ug/L  | 50          | 52.9       | 106       | 75-118       |            |
| Bromobenzene                | ug/L  | 50          | 56.1       | 112       | 68-127       |            |
| Bromochloromethane          | ug/L  | 50          | 47.9       | 96        | 66-126       |            |
| Bromodichloromethane        | ug/L  | 50          | 51.6       | 103       | 75-120       |            |
| Bromoform                   | ug/L  | 50          | 43.5       | 87        | 61-119       |            |
| Bromomethane                | ug/L  | 50          | 59.0       | 118       | 12-184       |            |
| Carbon disulfide            | ug/L  | 50          | 48.2       | 96        | 71-123       |            |
| Carbon tetrachloride        | ug/L  | 50          | 54.1       | 108       | 73-125       |            |
| Chlorobenzene               | ug/L  | 50          | 49.5       | 99        | 80-115       |            |
| Chloroethane                | ug/L  | 50          | 37.2       | 74        | 46-133       |            |
| Chloroform                  | ug/L  | 50          | 52.2       | 104       | 75-117       |            |
| Chloromethane               | ug/L  | 50          | 31.7       | 63        | 33-124       |            |
| cis-1,2-Dichloroethene      | ug/L  | 50          | 50.4       | 101       | 76-120       |            |
| cis-1,3-Dichloropropene     | ug/L  | 50          | <100       | 100       | 73-130       |            |
| Cyclohexane                 | ug/L  | 50          | 52.5       | 105       | 58-122       | N2         |
| Dibromochloromethane        | ug/L  | 50          | 47.7       | 95        | 69-124       |            |
| Dibromomethane              | ug/L  | 50          | 51.5       | 103       | 76-124       |            |
| Dichlorodifluoromethane     | ug/L  | 50          | 19.6       | 39        | 36-145       |            |
| Diethyl ether (Ethyl ether) | ug/L  | 50          | 51.0       | 102       | 70-130       |            |
| Ethylbenzene                | ug/L  | 50          | 51.5       | 103       | 78-120       |            |
| Iodomethane                 | ug/L  | 100         | 44.8       | 45        | 10-184       |            |
| Isopropylbenzene (Cumene)   | ug/L  | 50          | 56.2       | 112       | 82-122       |            |
| m&p-Xylene                  | ug/L  | 100         | 104        | 104       | 79-118       |            |
| Methyl-tert-butyl ether     | ug/L  | 50          | 51.8       | 104       | 79-125       |            |
| Methylene Chloride          | ug/L  | 50          | 50.6       | 101       | 68-126       |            |
| n-Butylbenzene              | ug/L  | 50          | 50.5       | 101       | 73-123       |            |
| n-Propylbenzene             | ug/L  | 50          | <100       | 106       | 75-119       |            |
| Naphthalene                 | ug/L  | 50          | 50.8       | 102       | 70-130       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

LABORATORY CONTROL SAMPLE: 2569144

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| o-Xylene                    | ug/L  | 50          | 52.7       | 105       | 78-121       |            |
| p-Isopropyltoluene          | ug/L  | 50          | 51.1       | 102       | 82-119       |            |
| sec-Butylbenzene            | ug/L  | 50          | 52.1       | 104       | 79-119       |            |
| Styrene                     | ug/L  | 50          | 53.1       | 106       | 80-121       |            |
| tert-Butyl Alcohol          | ug/L  | 100         | 101        | 101       | 10-200       |            |
| tert-Butylbenzene           | ug/L  | 50          | 39.7       | 79        | 58-106       |            |
| Tetrachloroethene           | ug/L  | 50          | 48.7       | 97        | 70-123       |            |
| Tetrahydrofuran             | ug/L  | 50          | <90.0      | 91        | 50-150       | N2         |
| Toluene                     | ug/L  | 50          | 48.5       | 97        | 72-114       |            |
| trans-1,2-Dichloroethene    | ug/L  | 50          | 54.6       | 109       | 79-126       |            |
| trans-1,3-Dichloropropene   | ug/L  | 50          | <100       | 94        | 68-122       |            |
| trans-1,4-Dichloro-2-butene | ug/L  | 200         | 180        | 90        | 34-130       |            |
| Trichloroethene             | ug/L  | 50          | 53.8       | 108       | 78-120       |            |
| Trichlorofluoromethane      | ug/L  | 50          | 56.3       | 113       | 57-156       |            |
| Vinyl chloride              | ug/L  | 50          | 37.3       | 75        | 55-122       |            |
| 4-Bromofluorobenzene (S)    | %     |             |            | 116       | 85-116       |            |
| Dibromofluoromethane (S)    | %     |             |            | 100       | 75-120       |            |
| Toluene-d8 (S)              | %     |             |            | 96        | 83-111       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2569145 2569146

| Parameter                   | Units | MS                 |             | MSD         |       | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------------------------|-------|--------------------|-------------|-------------|-------|-----------|------------|----------|-----------|--------------|-----|---------|------|
|                             |       | 50253985001 Result | Spike Conc. | Spike Conc. | Conc. |           |            |          |           |              |     |         |      |
| 1,1,1,2-Tetrachloroethane   | ug/L  | <1.0               | 50          | 50          | 50    | 49.7      | 50.7       | 99       | 101       | 51-135       | 2   | 20      |      |
| 1,1,1-Trichloroethane       | ug/L  | <1.0               | 50          | 50          | 50    | 59.9      | 58.6       | 120      | 117       | 56-144       | 2   | 20      |      |
| 1,1,2,2-Tetrachloroethane   | ug/L  | <1.0               | 50          | 50          | 50    | 47.4      | 47.5       | 95       | 95        | 47-137       | 0   | 20      |      |
| 1,1,2-Trichloroethane       | ug/L  | <1.0               | 50          | 50          | 50    | 50.0      | 49.0       | 100      | 98        | 55-136       | 2   | 20      |      |
| 1,1-Dichloroethane          | ug/L  | <1.0               | 50          | 50          | 50    | 61.5      | 59.7       | 123      | 119       | 53-140       | 3   | 20      |      |
| 1,1-Dichloroethene          | ug/L  | <1.0               | 50          | 50          | 50    | 57.5      | 57.2       | 115      | 114       | 60-140       | 1   | 20      |      |
| 1,2,3-Trichlorobenzene      | ug/L  | <1.0               | 50          | 50          | 50    | 52.0      | 52.1       | 104      | 104       | 35-140       | 0   | 20      |      |
| 1,2,3-Trichloropropane      | ug/L  | <1.0               | 50          | 50          | 50    | 50.6      | 52.4       | 101      | 105       | 54-142       | 3   | 20      |      |
| 1,2,4-Trichlorobenzene      | ug/L  | <1.0               | 50          | 50          | 50    | 53.1      | 51.6       | 106      | 103       | 31-143       | 3   | 20      |      |
| 1,2,4-Trimethylbenzene      | ug/L  | <5.0               | 50          | 50          | 50    | 54.0      | 53.0       | 108      | 106       | 13-152       | 2   | 20      |      |
| 1,2-Dibromo-3-chloropropane | ug/L  | <5.0               | 50          | 50          | 50    | 49.1      | 49.1       | 98       | 98        | 29-145       | 0   | 20      |      |
| 1,2-Dibromoethane (EDB)     | ug/L  | <1.0               | 50          | 50          | 50    | 50.2      | 50.5       | 100      | 101       | 56-136       | 1   | 20      |      |
| 1,2-Dichlorobenzene         | ug/L  | <1.0               | 50          | 50          | 50    | 47.9      | 47.4       | 96       | 95        | 38-133       | 1   | 20      |      |
| 1,2-Dichloroethane          | ug/L  | <1.0               | 50          | 50          | 50    | 52.8      | 53.4       | 106      | 107       | 46-145       | 1   | 20      |      |
| 1,2-Dichloropropane         | ug/L  | <1.0               | 50          | 50          | 50    | 56.7      | 57.6       | 113      | 115       | 55-141       | 2   | 20      |      |
| 1,3,5-Trimethylbenzene      | ug/L  | <5.0               | 50          | 50          | 50    | 53.6      | 52.7       | 107      | 105       | 23-145       | 2   | 20      |      |
| 1,3-Dichlorobenzene         | ug/L  | <1.0               | 50          | 50          | 50    | 49.8      | 49.0       | 100      | 98        | 31-144       | 2   | 20      |      |
| 1,4-Dichlorobenzene         | ug/L  | <1.0               | 50          | 50          | 50    | 47.7      | 47.1       | 95       | 94        | 31-138       | 1   | 20      |      |
| 2-Butanone (MEK)            | ug/L  | <5.0               | 250         | 250         | 250   | 218       | 224        | 87       | 90        | 42-150       | 3   | 20      |      |
| 2-Hexanone                  | ug/L  | <5.0               | 250         | 250         | 250   | 233       | 238        | 93       | 95        | 43-146       | 2   | 20      |      |
| 2-Methylnaphthalene         | ug/L  | <20.0              | 50          | 50          | 50    | 49.1      | 50.3       | 98       | 101       | 32-142       | 2   | 20      | N2   |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2569145 |       |             |       |             |             |        |        |       |       |              |     | 2569146 |      |  |  |  |  |  |  |  |  |  |  |
|--|-------|-------------|-------|-------------|-------------|--------|--------|-------|-------|--------------|-----|---------|------|--|--|--|--|--|--|--|--|--|--|
| Parameter                                      | Units | 50253985001 |       | MS          | MSD         | MS     |        | MSD   |       | % Rec Limits | RPD | Max RPD | Qual |  |  |  |  |  |  |  |  |  |  |
|  |       | Result      | Conc. | Spike Conc. | Spike Conc. | Result | Result | % Rec | % Rec |              |     |         |      |  |  |  |  |  |  |  |  |  |  |
| 4-Methyl-2-pentanone (MIBK)                    | ug/L  | <5.0        | 250   | 250         | 250         | 222    | 225    | 89    | 90    | 42-142       | 1   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| Acetone  | ug/L  | <20.0       | 250   | 250         | 250         | 223    | 245    | 89    | 98    | 36-142       | 9   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| Acrylonitrile                                  | ug/L  | <5.0        | 200   | 200         | 200         | 182    | 186    | 91    | 93    | 48-137       | 2   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| Benzene  | ug/L  | <1.0        | 50    | 50          | 50          | 55.8   | 55.2   | 112   | 110   | 49-135       | 1   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| Bromobenzene                                   | ug/L  | <1.0        | 50    | 50          | 50          | 56.3   | 56.8   | 113   | 114   | 37-144       | 1   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| Bromochloromethane                             | ug/L  | <1.0        | 50    | 50          | 50          | 48.7   | 46.6   | 97    | 93    | 47-140       | 4   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| Bromodichloromethane                           | ug/L  | <1.0        | 50    | 50          | 50          | 54.0   | 53.8   | 108   | 108   | 55-133       | 0   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| Bromoform                                      | ug/L  | <1.0        | 50    | 50          | 50          | 42.9   | 44.1   | 86    | 88    | 45-125       | 3   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| Bromomethane                                   | ug/L  | <5.0        | 50    | 50          | 50          | 62.7   | 64.8   | 125   | 130   | 10-191       | 3   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| Carbon disulfide                               | ug/L  | <1.0        | 50    | 50          | 50          | 51.2   | 50.1   | 102   | 100   | 49-136       | 2   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| Carbon tetrachloride                           | ug/L  | <1.0        | 50    | 50          | 50          | 57.0   | 57.0   | 114   | 114   | 55-134       | 0   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| Chlorobenzene                                  | ug/L  | <1.0        | 50    | 50          | 50          | 51.0   | 51.3   | 102   | 103   | 42-135       | 1   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| Chloroethane                                   | ug/L  | <5.0        | 50    | 50          | 50          | 39.4   | 38.8   | 79    | 78    | 25-154       | 2   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| Chloroform                                     | ug/L  | <1.0        | 50    | 50          | 50          | 54.1   | 53.6   | 108   | 107   | 57-130       | 1   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| Chloromethane                                  | ug/L  | <5.0        | 50    | 50          | 50          | 35.1   | 34.9   | 70    | 70    | 17-129       | 1   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| cis-1,2-Dichloroethene                         | ug/L  | <1.0        | 50    | 50          | 50          | 51.3   | 50.8   | 103   | 102   | 53-134       | 1   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| cis-1,3-Dichloropropene                        | ug/L  | <1.0        | 50    | 50          | 50          | <100   | <100   | 100   | 99    | 50-136       | 1   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| Cyclohexane                                    | ug/L  | <20.0       | 50    | 50          | 50          | 56.6   | 55.1   | 113   | 110   | 33-130       | 3   | 20      | N2   |  |  |  |  |  |  |  |  |  |  |
| Dibromochloromethane                           | ug/L  | <1.0        | 50    | 50          | 50          | 47.8   | 47.7   | 96    | 95    | 53-133       | 0   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| Dibromomethane                                 | ug/L  | <1.0        | 50    | 50          | 50          | 52.4   | 53.3   | 105   | 107   | 57-139       | 2   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| Dichlorodifluoromethane                        | ug/L  | <2.0        | 50    | 50          | 50          | 22.5   | 21.7   | 45    | 43    | 21-154       | 4   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| Diethyl ether (Ethyl ether)                    | ug/L  | <5.0        | 50    | 50          | 50          | 51.8   | 51.4   | 104   | 103   | 70-130       | 1   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| Ethylbenzene                                   | ug/L  | <1.0        | 50    | 50          | 50          | 53.1   | 53.0   | 106   | 106   | 28-147       | 0   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| Iodomethane                                    | ug/L  | <1.0        | 100   | 100         | 100         | 45.3   | 57.4   | 45    | 57    | 10-186       | 24  | 20      | R1   |  |  |  |  |  |  |  |  |  |  |
| Isopropylbenzene (Cumene)                      | ug/L  | <1.0        | 50    | 50          | 50          | 58.4   | 58.4   | 117   | 117   | 27-151       | 0   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| m&p-Xylene                                     | ug/L  | <2.0        | 100   | 100         | 100         | 107    | 107    | 107   | 107   | 28-145       | 0   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| Methyl-tert-butyl ether                        | ug/L  | <4.0        | 50    | 50          | 50          | 51.0   | 51.7   | 102   | 103   | 60-142       | 1   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| Methylene Chloride                             | ug/L  | <5.0        | 50    | 50          | 50          | 50.8   | 50.8   | 102   | 102   | 46-138       | 0   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| n-Butylbenzene                                 | ug/L  | <1.0        | 50    | 50          | 50          | 51.9   | 50.4   | 104   | 101   | 10-153       | 3   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| n-Propylbenzene                                | ug/L  | <1.0        | 50    | 50          | 50          | <100   | <100   | 111   | 109   | 20-149       | 1   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| Naphthalene                                    | ug/L  | <1.0        | 50    | 50          | 50          | 49.4   | 50.5   | 99    | 101   | 41-139       | 2   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| o-Xylene                                       | ug/L  | <1.0        | 50    | 50          | 50          | 54.7   | 54.6   | 109   | 109   | 31-145       | 0   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| p-Isopropyltoluene                             | ug/L  | <1.0        | 50    | 50          | 50          | 52.1   | 50.9   | 104   | 102   | 15-155       | 2   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| sec-Butylbenzene                               | ug/L  | <1.0        | 50    | 50          | 50          | 53.9   | 52.2   | 108   | 104   | 17-153       | 3   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| Styrene  | ug/L  | <1.0        | 50    | 50          | 50          | 54.5   | 54.5   | 109   | 109   | 42-139       | 0   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| tert-Butyl Alcohol                             | ug/L  | <10.0       | 100   | 100         | 100         | 77.5   | 82.2   | 77    | 82    | 10-170       | 6   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| tert-Butylbenzene                              | ug/L  | <1.0        | 50    | 50          | 50          | 41.5   | 40.9   | 83    | 82    | 18-123       | 1   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| Tetrachloroethene                              | ug/L  | <1.0        | 50    | 50          | 50          | 51.5   | 50.2   | 103   | 100   | 32-140       | 3   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| Tetrahydrofuran                                | ug/L  | <12.5       | 50    | 50          | 50          | <90.0  | <90.0  | 93    | 91    | 50-150       | 3   | 20      | N2   |  |  |  |  |  |  |  |  |  |  |
| Toluene  | ug/L  | <1.0        | 50    | 50          | 50          | 51.4   | 50.4   | 103   | 101   | 42-131       | 2   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| trans-1,2-Dichloroethene                       | ug/L  | <1.0        | 50    | 50          | 50          | 56.1   | 55.4   | 112   | 111   | 57-138       | 1   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| trans-1,3-Dichloropropene                      | ug/L  | <1.0        | 50    | 50          | 50          | <100   | <100   | 92    | 93    | 47-128       | 1   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| trans-1,4-Dichloro-2-butene                    | ug/L  | <5.0        | 200   | 200         | 200         | 174    | 177    | 87    | 89    | 10-135       | 2   | 20      |      |  |  |  |  |  |  |  |  |  |  |
| Trichloroethene                                | ug/L  | <1.0        | 50    | 50          | 50          | 56.8   | 56.2   | 114   | 112   | 47-137       | 1   | 20      |      |  |  |  |  |  |  |  |  |  |  |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale

Pace Project No.: 50254306

| Parameter                | Units | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2569145 |                      | 2569146               |              | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | Max<br>RPD | RPD | Qual |
|--------------------------|-------|--|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|------------|-----|------|
|                          |       | 50253985001<br>Result                          | MS<br>Spike<br>Conc. | MSD<br>Spike<br>Conc. | MS<br>Result |              |               |             |              |                 |            |     |      |
| Trichlorofluoromethane   | ug/L  | <1.0   | 50                   | 50                    | 58.7         | 58.3         | 117           | 117         | 42-163       | 1               | 20         |     |      |
| Vinyl chloride           | ug/L  | <1.0   | 50                   | 50                    | 40.6         | 39.6         | 81            | 79          | 36-136       | 2               | 20         |     |      |
| 4-Bromofluorobenzene (S) | %     |  |                      |                       |              |              | 115           | 116         | 85-116       |                 |            |     |      |
| Dibromofluoromethane (S) | %     |  |                      |                       |              |              | 98            | 100         | 75-120       |                 |            |     |      |
| Toluene-d8 (S)           | %     |  |                      |                       |              |              | 98            | 96          | 83-111       |                 |            |     |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

QC Batch: 557022 Analysis Method: EPA 5030B/8260  
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Low Level  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50254306009, 50254306010, 50254306011, 50254306012, 50254306013, 50254306014, 50254306015, 50254306016, 50254306017, 50254306018

METHOD BLANK: 2569149 Matrix: Water  
Associated Lab Samples: 50254306009, 50254306010, 50254306011, 50254306012, 50254306013, 50254306014, 50254306015, 50254306016, 50254306017, 50254306018

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:32 |            |
| 1,1,1-Trichloroethane       | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:32 |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:32 |            |
| 1,1,2-Trichloroethane       | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:32 |            |
| 1,1-Dichloroethane          | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:32 |            |
| 1,1-Dichloroethene          | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:32 |            |
| 1,2,3-Trichlorobenzene      | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:32 |            |
| 1,2,3-Trichloropropane      | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:32 |            |
| 1,2,3-Trimethylbenzene      | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:32 | N2         |
| 1,2,4-Trichlorobenzene      | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:32 |            |
| 1,2,4-Trimethylbenzene      | ug/L  | <1.0         | 5.0             | 1.0  | 04/15/20 00:32 |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | <0.25        | 0.50            | 0.25 | 04/15/20 00:32 |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | <0.23        | 0.50            | 0.23 | 04/15/20 00:32 |            |
| 1,2-Dichlorobenzene         | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:32 |            |
| 1,2-Dichloroethane          | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:32 |            |
| 1,2-Dichloropropane         | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:32 |            |
| 1,3,5-Trimethylbenzene      | ug/L  | <1.0         | 5.0             | 1.0  | 04/15/20 00:32 |            |
| 1,3-Dichlorobenzene         | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:32 |            |
| 1,4-Dichlorobenzene         | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:32 |            |
| 2-Butanone (MEK)            | ug/L  | <25.0        | 25.0            | 25.0 | 04/15/20 00:32 |            |
| 2-Hexanone                  | ug/L  | <50.0        | 50.0            | 50.0 | 04/15/20 00:32 |            |
| 2-Methylnaphthalene         | ug/L  | <5.0         | 20.0            | 5.0  | 04/15/20 00:32 | N2         |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | <50.0        | 50.0            | 50.0 | 04/15/20 00:32 |            |
| Acetone                     | ug/L  | <50.0        | 50.0            | 50.0 | 04/15/20 00:32 |            |
| Acrylonitrile               | ug/L  | <2.0         | 2.0             | 2.0  | 04/15/20 00:32 |            |
| Benzene                     | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:32 |            |
| Bromobenzene                | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:32 |            |
| Bromochloromethane          | ug/L  | <0.22        | 1.0             | 0.22 | 04/15/20 00:32 |            |
| Bromodichloromethane        | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:32 |            |
| Bromoform                   | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:32 |            |
| Bromomethane                | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:32 |            |
| Carbon disulfide            | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:32 |            |
| Carbon tetrachloride        | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:32 |            |
| Chlorobenzene               | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:32 |            |
| Chloroethane                | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:32 |            |
| Chloroform                  | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:32 |            |
| Chloromethane               | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:32 |            |
| cis-1,2-Dichloroethene      | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:32 |            |
| cis-1,3-Dichloropropene     | ug/L  | <100         | 100             | 100  | 04/15/20 00:32 |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

METHOD BLANK: 2569149

Matrix: Water

Associated Lab Samples: 50254306009, 50254306010, 50254306011, 50254306012, 50254306013, 50254306014, 50254306015, 50254306016, 50254306017, 50254306018

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| Cyclohexane                 | ug/L  | <10.0        | 10.0            | 10.0 | 04/15/20 00:32 | N2         |
| Dibromochloromethane        | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:32 |            |
| Dibromomethane              | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:32 |            |
| Dichlorodifluoromethane     | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:32 |            |
| Diethyl ether (Ethyl ether) | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:32 |            |
| Diisopropyl ether           | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:32 | N2         |
| Ethyl-tert-butyl ether      | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:32 | N2         |
| Ethylbenzene                | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:32 |            |
| Hexachloroethane            | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:32 | N2         |
| Iodomethane                 | ug/L  | <0.51        | 5.0             | 0.51 | 04/15/20 00:32 |            |
| Isopropylbenzene (Cumene)   | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:32 |            |
| m&p-Xylene                  | ug/L  | <0.24        | 2.0             | 0.24 | 04/15/20 00:32 |            |
| Methyl-tert-butyl ether     | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:32 |            |
| Methylene Chloride          | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:32 |            |
| n-Butylbenzene              | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:32 |            |
| n-Propylbenzene             | ug/L  | <100         | 100             | 100  | 04/15/20 00:32 |            |
| Naphthalene                 | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:32 |            |
| o-Xylene                    | ug/L  | <0.16        | 1.0             | 0.16 | 04/15/20 00:32 |            |
| p-Isopropyltoluene          | ug/L  | <0.11        | 1.0             | 0.11 | 04/15/20 00:32 |            |
| sec-Butylbenzene            | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:32 |            |
| Styrene                     | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:32 |            |
| tert-Amylmethyl ether       | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 00:32 | N2         |
| tert-Butyl Alcohol          | ug/L  | <50.0        | 50.0            | 50.0 | 04/15/20 00:32 |            |
| tert-Butylbenzene           | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:32 |            |
| Tetrachloroethane           | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:32 |            |
| Tetrahydrofuran             | ug/L  | <90.0        | 90.0            | 90.0 | 04/15/20 00:32 | N2         |
| Toluene                     | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:32 |            |
| trans-1,2-Dichloroethane    | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:32 |            |
| trans-1,3-Dichloropropene   | ug/L  | <100         | 100             | 100  | 04/15/20 00:32 |            |
| trans-1,4-Dichloro-2-butene | ug/L  | <0.40        | 100             | 0.40 | 04/15/20 00:32 |            |
| Trichloroethene             | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:32 |            |
| Trichlorofluoromethane      | ug/L  | <1.0         | 2.0             | 1.0  | 04/15/20 00:32 |            |
| Vinyl chloride              | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 00:32 |            |
| 4-Bromofluorobenzene (S)    | %     | 111          | 85-116          |      | 04/15/20 00:32 |            |
| Dibromofluoromethane (S)    | %     | 97           | 75-120          |      | 04/15/20 00:32 |            |
| Toluene-d8 (S)              | %     | 97           | 83-111          |      | 04/15/20 00:32 |            |

LABORATORY CONTROL SAMPLE: 2569150

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/L  | 50          | 46.8       | 94        | 78-120       |            |
| 1,1,1-Trichloroethane     | ug/L  | 50          | 52.4       | 105       | 78-130       |            |
| 1,1,2,2-Tetrachloroethane | ug/L  | 50          | 45.4       | 91        | 64-126       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

LABORATORY CONTROL SAMPLE: 2569150

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,2-Trichloroethane       | ug/L  | 50          | 43.7       | 87        | 73-125       |            |
| 1,1-Dichloroethane          | ug/L  | 50          | 49.9       | 100       | 77-123       |            |
| 1,1-Dichloroethene          | ug/L  | 50          | 49.1       | 98        | 79-128       |            |
| 1,2,3-Trichlorobenzene      | ug/L  | 50          | 47.5       | 95        | 75-126       |            |
| 1,2,3-Trichloropropane      | ug/L  | 50          | 45.9       | 92        | 71-131       |            |
| 1,2,4-Trichlorobenzene      | ug/L  | 50          | 47.7       | 95        | 76-130       |            |
| 1,2,4-Trimethylbenzene      | ug/L  | 50          | 48.9       | 98        | 76-119       |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | 50          | 47.2       | 94        | 71-133       |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | 50          | 46.1       | 92        | 76-122       |            |
| 1,2-Dichlorobenzene         | ug/L  | 50          | 44.8       | 90        | 79-113       |            |
| 1,2-Dichloroethane          | ug/L  | 50          | 47.3       | 95        | 66-127       |            |
| 1,2-Dichloropropane         | ug/L  | 50          | 50.3       | 101       | 75-127       |            |
| 1,3,5-Trimethylbenzene      | ug/L  | 50          | 48.7       | 97        | 78-116       |            |
| 1,3-Dichlorobenzene         | ug/L  | 50          | 45.1       | 90        | 79-120       |            |
| 1,4-Dichlorobenzene         | ug/L  | 50          | 44.4       | 89        | 77-117       |            |
| 2-Butanone (MEK)            | ug/L  | 250         | 228        | 91        | 61-138       |            |
| 2-Hexanone                  | ug/L  | 250         | 223        | 89        | 58-138       |            |
| 2-Methylnaphthalene         | ug/L  | 50          | 46.9       | 94        | 60-136       | N2         |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | 250         | 214        | 86        | 60-131       |            |
| Acetone                     | ug/L  | 250         | 238        | 95        | 57-126       |            |
| Acrylonitrile               | ug/L  | 200         | 170        | 85        | 65-127       |            |
| Benzene                     | ug/L  | 50          | 49.4       | 99        | 75-118       |            |
| Bromobenzene                | ug/L  | 50          | 53.7       | 107       | 68-127       |            |
| Bromochloromethane          | ug/L  | 50          | 41.1       | 82        | 66-126       |            |
| Bromodichloromethane        | ug/L  | 50          | 47.4       | 95        | 75-120       |            |
| Bromoform                   | ug/L  | 50          | 42.4       | 85        | 61-119       |            |
| Bromomethane                | ug/L  | 50          | 38.1       | 76        | 12-184       |            |
| Carbon disulfide            | ug/L  | 50          | 44.6       | 89        | 71-123       |            |
| Carbon tetrachloride        | ug/L  | 50          | 49.0       | 98        | 73-125       |            |
| Chlorobenzene               | ug/L  | 50          | 47.1       | 94        | 80-115       |            |
| Chloroethane                | ug/L  | 50          | 39.3       | 79        | 46-133       |            |
| Chloroform                  | ug/L  | 50          | 46.4       | 93        | 75-117       |            |
| Chloromethane               | ug/L  | 50          | 26.1       | 52        | 33-124       |            |
| cis-1,2-Dichloroethene      | ug/L  | 50          | 48.0       | 96        | 76-120       |            |
| cis-1,3-Dichloropropene     | ug/L  | 50          | <100       | 93        | 73-130       |            |
| Cyclohexane                 | ug/L  | 50          | 47.0       | 94        | 58-122       | N2         |
| Dibromochloromethane        | ug/L  | 50          | 43.1       | 86        | 69-124       |            |
| Dibromomethane              | ug/L  | 50          | 47.0       | 94        | 76-124       |            |
| Dichlorodifluoromethane     | ug/L  | 50          | 18.4       | 37        | 36-145       |            |
| Diethyl ether (Ethyl ether) | ug/L  | 50          | 45.8       | 92        | 70-130       |            |
| Ethylbenzene                | ug/L  | 50          | 48.3       | 97        | 78-120       |            |
| Iodomethane                 | ug/L  | 100         | 50.4       | 50        | 10-184       |            |
| Isopropylbenzene (Cumene)   | ug/L  | 50          | 53.5       | 107       | 82-122       |            |
| m&p-Xylene                  | ug/L  | 100         | 102        | 102       | 79-118       |            |
| Methyl-tert-butyl ether     | ug/L  | 50          | 48.0       | 96        | 79-125       |            |
| Methylene Chloride          | ug/L  | 50          | 48.9       | 98        | 68-126       |            |
| n-Butylbenzene              | ug/L  | 50          | 47.9       | 96        | 73-123       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

LABORATORY CONTROL SAMPLE: 2569150

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| n-Propylbenzene             | ug/L  | 50          | <100       | 100       | 75-119       |            |
| Naphthalene                 | ug/L  | 50          | 45.3       | 91        | 70-130       |            |
| o-Xylene                    | ug/L  | 50          | 51.3       | 103       | 78-121       |            |
| p-Isopropyltoluene          | ug/L  | 50          | 48.0       | 96        | 82-119       |            |
| sec-Butylbenzene            | ug/L  | 50          | 48.7       | 97        | 79-119       |            |
| Styrene                     | ug/L  | 50          | 50.5       | 101       | 80-121       |            |
| tert-Butyl Alcohol          | ug/L  | 100         | 115        | 115       | 10-200       |            |
| tert-Butylbenzene           | ug/L  | 50          | 36.9       | 74        | 58-106       |            |
| Tetrachloroethene           | ug/L  | 50          | 46.8       | 94        | 70-123       |            |
| Tetrahydrofuran             | ug/L  | 50          | <90.0      | 95        | 50-150       | N2         |
| Toluene                     | ug/L  | 50          | 45.2       | 90        | 72-114       |            |
| trans-1,2-Dichloroethene    | ug/L  | 50          | 47.1       | 94        | 79-126       |            |
| trans-1,3-Dichloropropene   | ug/L  | 50          | <100       | 88        | 68-122       |            |
| trans-1,4-Dichloro-2-butene | ug/L  | 200         | 220        | 110       | 34-130       |            |
| Trichloroethene             | ug/L  | 50          | 48.8       | 98        | 78-120       |            |
| Trichlorofluoromethane      | ug/L  | 50          | 50.1       | 100       | 57-156       |            |
| Vinyl chloride              | ug/L  | 50          | 35.5       | 71        | 55-122       |            |
| 4-Bromofluorobenzene (S)    | %     |             |            | 118       | 85-116       | S0         |
| Dibromofluoromethane (S)    | %     |             |            | 97        | 75-120       |            |
| Toluene-d8 (S)              | %     |             |            | 97        | 83-111       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

QC Batch: 556788 Analysis Method: EPA 8270 by SIM 40E  
QC Batch Method: EPA 3511 Analysis Description: 8270 Water PAH 40 by SIM MSSV  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50254306001, 50254306002, 50254306003, 50254306004, 50254306005, 50254306006, 50254306007, 50254306008, 50254306009, 50254306010

METHOD BLANK: 2568220 Matrix: Water  
Associated Lab Samples: 50254306001, 50254306002, 50254306003, 50254306004, 50254306005, 50254306006, 50254306007, 50254306008, 50254306009, 50254306010

| Parameter              | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|------------------------|-------|--------------|-----------------|------|----------------|------------|
| 2-Methylnaphthalene    | ug/L  | <5.0         | 5.0             | 5.0  | 04/13/20 19:00 |            |
| Acenaphthene           | ug/L  | <5.0         | 5.0             | 5.0  | 04/13/20 19:00 |            |
| Acenaphthylene         | ug/L  | <5.0         | 5.0             | 5.0  | 04/13/20 19:00 |            |
| Anthracene             | ug/L  | <5.0         | 5.0             | 5.0  | 04/13/20 19:00 |            |
| Benzo(a)anthracene     | ug/L  | <1.0         | 1.0             | 1.0  | 04/13/20 19:00 |            |
| Benzo(a)pyrene         | ug/L  | <0.20        | 0.20            | 0.20 | 04/13/20 19:00 |            |
| Benzo(b)fluoranthene   | ug/L  | <1.0         | 1.0             | 1.0  | 04/13/20 19:00 |            |
| Benzo(g,h,i)perylene   | ug/L  | <1.0         | 1.0             | 1.0  | 04/13/20 19:00 |            |
| Benzo(k)fluoranthene   | ug/L  | <1.0         | 1.0             | 1.0  | 04/13/20 19:00 |            |
| Chrysene               | ug/L  | <1.0         | 1.0             | 1.0  | 04/13/20 19:00 |            |
| Dibenz(a,h)anthracene  | ug/L  | <2.0         | 2.0             | 2.0  | 04/13/20 19:00 |            |
| Fluoranthene           | ug/L  | <1.0         | 1.0             | 1.0  | 04/13/20 19:00 |            |
| Fluorene               | ug/L  | <5.0         | 5.0             | 5.0  | 04/13/20 19:00 |            |
| Indeno(1,2,3-cd)pyrene | ug/L  | <2.0         | 2.0             | 2.0  | 04/13/20 19:00 |            |
| Naphthalene            | ug/L  | <5.0         | 5.0             | 5.0  | 04/13/20 19:00 |            |
| Phenanthrene           | ug/L  | <2.0         | 2.0             | 2.0  | 04/13/20 19:00 |            |
| Pyrene                 | ug/L  | <5.0         | 5.0             | 5.0  | 04/13/20 19:00 |            |
| 2-Fluorobiphenyl (S)   | %     | 105          | 48-123          |      | 04/13/20 19:00 |            |
| p-Terphenyl-d14 (S)    | %     | 111          | 68-138          |      | 04/13/20 19:00 |            |

LABORATORY CONTROL SAMPLE: 2568221

| Parameter              | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| 2-Methylnaphthalene    | ug/L  | 25          | 19.4       | 78        | 45-121       |            |
| Acenaphthene           | ug/L  | 25          | 22.3       | 89        | 58-113       |            |
| Acenaphthylene         | ug/L  | 25          | 26.3       | 105       | 74-128       |            |
| Anthracene             | ug/L  | 25          | 29.7       | 119       | 68-142       |            |
| Benzo(a)anthracene     | ug/L  | 25          | 29.0       | 116       | 78-142       |            |
| Benzo(a)pyrene         | ug/L  | 25          | 28.9       | 115       | 76-142       |            |
| Benzo(b)fluoranthene   | ug/L  | 25          | 29.0       | 116       | 69-144       |            |
| Benzo(g,h,i)perylene   | ug/L  | 25          | 25.1       | 100       | 56-133       |            |
| Benzo(k)fluoranthene   | ug/L  | 25          | 28.2       | 113       | 69-142       |            |
| Chrysene               | ug/L  | 25          | 25.8       | 103       | 74-122       |            |
| Dibenz(a,h)anthracene  | ug/L  | 25          | 28.0       | 112       | 56-144       |            |
| Fluoranthene           | ug/L  | 25          | 32.0       | 128       | 79-149       |            |
| Fluorene               | ug/L  | 25          | 27.7       | 111       | 69-131       |            |
| Indeno(1,2,3-cd)pyrene | ug/L  | 25          | 27.2       | 109       | 62-139       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale

Pace Project No.: 50254306

LABORATORY CONTROL SAMPLE: 2568221

| Parameter            | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|-------------|------------|-----------|--------------|------------|
| Naphthalene          | ug/L  | 25          | 19.9       | 80        | 49-117       |            |
| Phenanthrene         | ug/L  | 25          | 28.7       | 115       | 74-128       |            |
| Pyrene               | ug/L  | 25          | 27.2       | 109       | 71-127       |            |
| 2-Fluorobiphenyl (S) | %     |             |            | 106       | 48-123       |            |
| p-Terphenyl-d14 (S)  | %     |             |            | 102       | 68-138       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2568222 2568223

| Parameter              | Units | MS                 |             | MSD         |       | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------------------|-------|--------------------|-------------|-------------|-------|-----------|------------|----------|-----------|--------------|-----|---------|------|
|                        |       | 50254255010 Result | Spike Conc. | Spike Conc. | Conc. |           |            |          |           |              |     |         |      |
| 2-Methylnaphthalene    | ug/L  | ND                 | 25          | 25          | 25    | 21.2      | 21.9       | 85       | 88        | 45-124       | 4   | 20      |      |
| Acenaphthene           | ug/L  | ND                 | 25          | 25          | 25    | 24.0      | 24.6       | 96       | 98        | 57-116       | 3   | 20      |      |
| Acenaphthylene         | ug/L  | ND                 | 25          | 25          | 25    | 28.5      | 28.8       | 114      | 115       | 77-129       | 1   | 20      |      |
| Anthracene             | ug/L  | ND                 | 25          | 25          | 25    | 31.6      | 31.5       | 126      | 126       | 80-141       | 0   | 20      |      |
| Benzo(a)anthracene     | ug/L  | ND                 | 25          | 25          | 25    | 30.8      | 30.4       | 123      | 122       | 88-141       | 1   | 20      |      |
| Benzo(a)pyrene         | ug/L  | ND                 | 25          | 25          | 25    | 30.8      | 30.8       | 123      | 123       | 80-143       | 0   | 20      |      |
| Benzo(b)fluoranthene   | ug/L  | ND                 | 25          | 25          | 25    | 32.7      | 30.5       | 131      | 122       | 79-143       | 7   | 20      |      |
| Benzo(g,h,i)perylene   | ug/L  | ND                 | 25          | 25          | 25    | 26.8      | 27.2       | 107      | 109       | 66-129       | 1   | 20      |      |
| Benzo(k)fluoranthene   | ug/L  | ND                 | 25          | 25          | 25    | 28.8      | 30.8       | 115      | 123       | 74-142       | 7   | 20      |      |
| Chrysene               | ug/L  | ND                 | 25          | 25          | 25    | 27.5      | 27.8       | 110      | 111       | 78-122       | 1   | 20      |      |
| Dibenz(a,h)anthracene  | ug/L  | ND                 | 25          | 25          | 25    | 29.8      | 30.0       | 119      | 120       | 67-139       | 1   | 20      |      |
| Fluoranthene           | ug/L  | ND                 | 25          | 25          | 25    | 34.2      | 34.4       | 137      | 138       | 88-149       | 1   | 20      |      |
| Fluorene               | ug/L  | ND                 | 25          | 25          | 25    | 29.6      | 29.6       | 118      | 118       | 71-135       | 0   | 20      |      |
| Indeno(1,2,3-cd)pyrene | ug/L  | ND                 | 25          | 25          | 25    | 28.9      | 29.1       | 116      | 116       | 72-135       | 1   | 20      |      |
| Naphthalene            | ug/L  | ND                 | 25          | 25          | 25    | 21.9      | 22.7       | 87       | 91        | 41-128       | 4   | 20      |      |
| Phenanthrene           | ug/L  | ND                 | 25          | 25          | 25    | 30.2      | 30.9       | 121      | 124       | 74-134       | 2   | 20      |      |
| Pyrene                 | ug/L  | ND                 | 25          | 25          | 25    | 28.9      | 29.5       | 116      | 118       | 79-126       | 2   | 20      |      |
| 2-Fluorobiphenyl (S)   | %     |                    |             |             |       |           |            | 99       | 92        | 48-123       |     |         |      |
| p-Terphenyl-d14 (S)    | %     |                    |             |             |       |           |            | 102      | 95        | 68-138       |     |         |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

QC Batch: 557175 Analysis Method: EPA 8270 by SIM 40E  
QC Batch Method: EPA 3511 Analysis Description: 8270 Water PAH 40 by SIM MSSV  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50254306011, 50254306012, 50254306013, 50254306014, 50254306015, 50254306016, 50254306017

METHOD BLANK: 2569648 Matrix: Water  
Associated Lab Samples: 50254306011, 50254306012, 50254306013, 50254306014, 50254306015, 50254306016, 50254306017

| Parameter              | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|------------------------|-------|--------------|-----------------|------|----------------|------------|
| 2-Methylnaphthalene    | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 17:21 |            |
| Acenaphthene           | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 17:21 |            |
| Acenaphthylene         | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 17:21 |            |
| Anthracene             | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 17:21 |            |
| Benzo(a)anthracene     | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 17:21 |            |
| Benzo(a)pyrene         | ug/L  | <0.20        | 0.20            | 0.20 | 04/15/20 17:21 |            |
| Benzo(b)fluoranthene   | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 17:21 |            |
| Benzo(g,h,i)perylene   | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 17:21 |            |
| Benzo(k)fluoranthene   | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 17:21 |            |
| Chrysene               | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 17:21 |            |
| Dibenz(a,h)anthracene  | ug/L  | <2.0         | 2.0             | 2.0  | 04/15/20 17:21 |            |
| Fluoranthene           | ug/L  | <1.0         | 1.0             | 1.0  | 04/15/20 17:21 |            |
| Fluorene               | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 17:21 |            |
| Indeno(1,2,3-cd)pyrene | ug/L  | <2.0         | 2.0             | 2.0  | 04/15/20 17:21 |            |
| Naphthalene            | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 17:21 |            |
| Phenanthrene           | ug/L  | <2.0         | 2.0             | 2.0  | 04/15/20 17:21 |            |
| Pyrene                 | ug/L  | <5.0         | 5.0             | 5.0  | 04/15/20 17:21 |            |
| 2-Fluorobiphenyl (S)   | %     | 100          | 48-123          |      | 04/15/20 17:21 |            |
| p-Terphenyl-d14 (S)    | %     | 106          | 68-138          |      | 04/15/20 17:21 |            |

LABORATORY CONTROL SAMPLE: 2569649

| Parameter              | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| 2-Methylnaphthalene    | ug/L  | 25          | 16.5       | 66        | 45-121       |            |
| Acenaphthene           | ug/L  | 25          | 18.9       | 76        | 58-113       |            |
| Acenaphthylene         | ug/L  | 25          | 23.1       | 92        | 74-128       |            |
| Anthracene             | ug/L  | 25          | 28.6       | 114       | 68-142       |            |
| Benzo(a)anthracene     | ug/L  | 25          | 29.3       | 117       | 78-142       |            |
| Benzo(a)pyrene         | ug/L  | 25          | 28.9       | 116       | 76-142       |            |
| Benzo(b)fluoranthene   | ug/L  | 25          | 28.8       | 115       | 69-144       |            |
| Benzo(g,h,i)perylene   | ug/L  | 25          | 25.5       | 102       | 56-133       |            |
| Benzo(k)fluoranthene   | ug/L  | 25          | 27.6       | 111       | 69-142       |            |
| Chrysene               | ug/L  | 25          | 26.2       | 105       | 74-122       |            |
| Dibenz(a,h)anthracene  | ug/L  | 25          | 28.2       | 113       | 56-144       |            |
| Fluoranthene           | ug/L  | 25          | 32.9       | 132       | 79-149       |            |
| Fluorene               | ug/L  | 25          | 25.1       | 100       | 69-131       |            |
| Indeno(1,2,3-cd)pyrene | ug/L  | 25          | 27.4       | 110       | 62-139       |            |
| Naphthalene            | ug/L  | 25          | 17.2       | 69        | 49-117       |            |
| Phenanthrene           | ug/L  | 25          | 27.8       | 111       | 74-128       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50254306

LABORATORY CONTROL SAMPLE: 2569649

| Parameter            | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|-------------|------------|-----------|--------------|------------|
| Pyrene               | ug/L  | 25          | 26.2       | 105       | 71-127       |            |
| 2-Fluorobiphenyl (S) | %.    |             |            | 93        | 48-123       |            |
| p-Terphenyl-d14 (S)  | %.    |             |            | 100       | 68-138       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2569650 2569651

| Parameter              | Units | 50254357002 |       | MS          | MSD         | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------------------|-------|-------------|-------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
|                        |       | Result      | Conc. | Spike Conc. | Spike Conc. |           |            |          |           |              |     |         |      |
| 2-Methylnaphthalene    | ug/L  | ND          | 25    | 25          | 25          | 18.4      | 19.5       | 74       | 78        | 45-124       | 6   | 20      |      |
| Acenaphthene           | ug/L  | ND          | 25    | 25          | 25          | 20.8      | 22.3       | 83       | 89        | 57-116       | 7   | 20      |      |
| Acenaphthylene         | ug/L  | ND          | 25    | 25          | 25          | 25.2      | 26.7       | 101      | 107       | 77-129       | 6   | 20      |      |
| Anthracene             | ug/L  | ND          | 25    | 25          | 25          | 30.7      | 32.0       | 123      | 128       | 80-141       | 4   | 20      |      |
| Benzo(a)anthracene     | ug/L  | ND          | 25    | 25          | 25          | 33.2      | 32.3       | 133      | 129       | 88-141       | 3   | 20      |      |
| Benzo(a)pyrene         | ug/L  | ND          | 25    | 25          | 25          | 32.1      | 33.5       | 128      | 134       | 80-143       | 4   | 20      |      |
| Benzo(b)fluoranthene   | ug/L  | ND          | 25    | 25          | 25          | 32.9      | 36.4       | 132      | 146       | 79-143       | 10  | 20      | M1   |
| Benzo(g,h,i)perylene   | ug/L  | ND          | 25    | 25          | 25          | 26.6      | 27.9       | 106      | 112       | 66-129       | 5   | 20      |      |
| Benzo(k)fluoranthene   | ug/L  | ND          | 25    | 25          | 25          | 31.0      | 31.7       | 124      | 127       | 74-142       | 2   | 20      |      |
| Chrysene               | ug/L  | ND          | 25    | 25          | 25          | 27.3      | 29.6       | 109      | 118       | 78-122       | 8   | 20      |      |
| Dibenz(a,h)anthracene  | ug/L  | ND          | 25    | 25          | 25          | 29.3      | 31.0       | 117      | 124       | 67-139       | 5   | 20      |      |
| Fluoranthene           | ug/L  | ND          | 25    | 25          | 25          | 33.7      | 34.0       | 135      | 136       | 88-149       | 1   | 20      |      |
| Fluorene               | ug/L  | ND          | 25    | 25          | 25          | 26.2      | 27.6       | 105      | 110       | 71-135       | 5   | 20      |      |
| Indeno(1,2,3-cd)pyrene | ug/L  | ND          | 25    | 25          | 25          | 28.7      | 30.3       | 115      | 121       | 72-135       | 5   | 20      |      |
| Naphthalene            | ug/L  | ND          | 25    | 25          | 25          | 19.1      | 20.5       | 77       | 82        | 41-128       | 7   | 20      |      |
| Phenanthrene           | ug/L  | ND          | 25    | 25          | 25          | 30.5      | 31.4       | 122      | 126       | 74-134       | 3   | 20      |      |
| Pyrene                 | ug/L  | ND          | 25    | 25          | 25          | 31.3      | 32.8       | 125      | 131       | 79-126       | 5   | 20      | M1   |
| 2-Fluorobiphenyl (S)   | %.    |             |       |             |             |           |            | 85       | 92        | 48-123       |     |         |      |
| p-Terphenyl-d14 (S)    | %.    |             |       |             |             |           |            | 102      | 106       | 68-138       |     |         |      |

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## QUALIFIERS

Project: 8 Mile Ferndale

Pace Project No.: 50254306

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

- |    |   |
|----|---|
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.   |
| N2 | The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request. |
| R1 | RPD value was outside control limits.   |
| S0 | Surrogate recovery outside laboratory control limits.   |

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 8 Mile Ferndale

Pace Project No.: 50254306

| Lab ID      | Sample ID | QC Batch Method         | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-------------------------|----------|-------------------|------------------|
| 50254306001 | MW-101    | EPA 8015 Alcohol-Glycol | 556643   |                   |                  |
| 50254306002 | MW-102    | EPA 8015 Alcohol-Glycol | 556643   |                   |                  |
| 50254306003 | MW-103    | EPA 8015 Alcohol-Glycol | 556643   |                   |                  |
| 50254306004 | MW-104    | EPA 8015 Alcohol-Glycol | 556643   |                   |                  |
| 50254306005 | MW-105    | EPA 8015 Alcohol-Glycol | 556643   |                   |                  |
| 50254306006 | MW-106    | EPA 8015 Alcohol-Glycol | 556643   |                   |                  |
| 50254306007 | MW-107    | EPA 8015 Alcohol-Glycol | 556643   |                   |                  |
| 50254306008 | MW-108    | EPA 8015 Alcohol-Glycol | 556643   |                   |                  |
| 50254306009 | MW-109    | EPA 8015 Alcohol-Glycol | 556643   |                   |                  |
| 50254306010 | DUP-1     | EPA 8015 Alcohol-Glycol | 556643   |                   |                  |
| 50254306011 | MW-110    | EPA 8015 Alcohol-Glycol | 556644   |                   |                  |
| 50254306012 | MW-111    | EPA 8015 Alcohol-Glycol | 556644   |                   |                  |
| 50254306013 | MW-112    | EPA 8015 Alcohol-Glycol | 556644   |                   |                  |
| 50254306014 | MW-113    | EPA 8015 Alcohol-Glycol | 556644   |                   |                  |
| 50254306015 | MW-114    | EPA 8015 Alcohol-Glycol | 556644   |                   |                  |
| 50254306016 | MW-115    | EPA 8015 Alcohol-Glycol | 556644   |                   |                  |
| 50254306017 | DUP-2     | EPA 8015 Alcohol-Glycol | 556644   |                   |                  |
| 50254306001 | MW-101    | EPA 200.2               | 556720   | EPA 6020          | 556885           |
| 50254306002 | MW-102    | EPA 200.2               | 556720   | EPA 6020          | 556885           |
| 50254306003 | MW-103    | EPA 200.2               | 556720   | EPA 6020          | 556885           |
| 50254306004 | MW-104    | EPA 200.2               | 556720   | EPA 6020          | 556885           |
| 50254306005 | MW-105    | EPA 200.2               | 556720   | EPA 6020          | 556885           |
| 50254306006 | MW-106    | EPA 200.2               | 556720   | EPA 6020          | 556885           |
| 50254306007 | MW-107    | EPA 200.2               | 556720   | EPA 6020          | 556885           |
| 50254306008 | MW-108    | EPA 200.2               | 556720   | EPA 6020          | 556885           |
| 50254306009 | MW-109    | EPA 200.2               | 556720   | EPA 6020          | 556885           |
| 50254306010 | DUP-1     | EPA 200.2               | 556720   | EPA 6020          | 556885           |
| 50254306011 | MW-110    | EPA 200.2               | 556720   | EPA 6020          | 556885           |
| 50254306012 | MW-111    | EPA 200.2               | 556720   | EPA 6020          | 556885           |
| 50254306013 | MW-112    | EPA 200.2               | 556720   | EPA 6020          | 556885           |
| 50254306014 | MW-113    | EPA 200.2               | 556720   | EPA 6020          | 556885           |
| 50254306015 | MW-114    | EPA 200.2               | 556720   | EPA 6020          | 556885           |
| 50254306016 | MW-115    | EPA 200.2               | 556720   | EPA 6020          | 556885           |
| 50254306017 | DUP-2     | EPA 200.2               | 556720   | EPA 6020          | 556885           |
| 50254306001 | MW-101    | EPA 7470                | 557018   | EPA 7470          | 557589           |
| 50254306002 | MW-102    | EPA 7470                | 557018   | EPA 7470          | 557589           |
| 50254306003 | MW-103    | EPA 7470                | 557018   | EPA 7470          | 557589           |
| 50254306004 | MW-104    | EPA 7470                | 557018   | EPA 7470          | 557589           |
| 50254306005 | MW-105    | EPA 7470                | 557018   | EPA 7470          | 557589           |
| 50254306006 | MW-106    | EPA 7470                | 557018   | EPA 7470          | 557589           |
| 50254306007 | MW-107    | EPA 7470                | 557018   | EPA 7470          | 557589           |
| 50254306008 | MW-108    | EPA 7470                | 557018   | EPA 7470          | 557589           |
| 50254306009 | MW-109    | EPA 7470                | 557018   | EPA 7470          | 557589           |
| 50254306010 | DUP-1     | EPA 7470                | 557018   | EPA 7470          | 557589           |
| 50254306011 | MW-110    | EPA 7470                | 557018   | EPA 7470          | 557589           |
| 50254306012 | MW-111    | EPA 7470                | 557018   | EPA 7470          | 557589           |
| 50254306013 | MW-112    | EPA 7470                | 557018   | EPA 7470          | 557589           |

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 8 Mile Ferndale

Pace Project No.: 50254306

| Lab ID      | Sample ID  | QC Batch Method | QC Batch | Analytical Method   | Analytical Batch |
|-------------|------------|-----------------|----------|---------------------|------------------|
| 50254306014 | MW-113     | EPA 7470        | 557018   | EPA 7470            | 557589           |
| 50254306015 | MW-114     | EPA 7470        | 557018   | EPA 7470            | 557589           |
| 50254306016 | MW-115     | EPA 7470        | 557018   | EPA 7470            | 557589           |
| 50254306017 | DUP-2      | EPA 7470        | 557018   | EPA 7470            | 557589           |
| 50254306001 | MW-101     | EPA 3511        | 556788   | EPA 8270 by SIM 40E | 556848           |
| 50254306002 | MW-102     | EPA 3511        | 556788   | EPA 8270 by SIM 40E | 556848           |
| 50254306003 | MW-103     | EPA 3511        | 556788   | EPA 8270 by SIM 40E | 556848           |
| 50254306004 | MW-104     | EPA 3511        | 556788   | EPA 8270 by SIM 40E | 556848           |
| 50254306005 | MW-105     | EPA 3511        | 556788   | EPA 8270 by SIM 40E | 556848           |
| 50254306006 | MW-106     | EPA 3511        | 556788   | EPA 8270 by SIM 40E | 556848           |
| 50254306007 | MW-107     | EPA 3511        | 556788   | EPA 8270 by SIM 40E | 556848           |
| 50254306008 | MW-108     | EPA 3511        | 556788   | EPA 8270 by SIM 40E | 556848           |
| 50254306009 | MW-109     | EPA 3511        | 556788   | EPA 8270 by SIM 40E | 556848           |
| 50254306010 | DUP-1      | EPA 3511        | 556788   | EPA 8270 by SIM 40E | 556848           |
| 50254306011 | MW-110     | EPA 3511        | 557175   | EPA 8270 by SIM 40E | 557316           |
| 50254306012 | MW-111     | EPA 3511        | 557175   | EPA 8270 by SIM 40E | 557316           |
| 50254306013 | MW-112     | EPA 3511        | 557175   | EPA 8270 by SIM 40E | 557316           |
| 50254306014 | MW-113     | EPA 3511        | 557175   | EPA 8270 by SIM 40E | 557316           |
| 50254306015 | MW-114     | EPA 3511        | 557175   | EPA 8270 by SIM 40E | 557316           |
| 50254306016 | MW-115     | EPA 3511        | 557175   | EPA 8270 by SIM 40E | 557316           |
| 50254306017 | DUP-2      | EPA 3511        | 557175   | EPA 8270 by SIM 40E | 557316           |
| 50254306001 | MW-101     | EPA 5030B/8260  | 556983   |                     |                  |
| 50254306002 | MW-102     | EPA 5030B/8260  | 556981   |                     |                  |
| 50254306003 | MW-103     | EPA 5030B/8260  | 556981   |                     |                  |
| 50254306004 | MW-104     | EPA 5030B/8260  | 556981   |                     |                  |
| 50254306005 | MW-105     | EPA 5030B/8260  | 557020   |                     |                  |
| 50254306006 | MW-106     | EPA 5030B/8260  | 557020   |                     |                  |
| 50254306007 | MW-107     | EPA 5030B/8260  | 557020   |                     |                  |
| 50254306008 | MW-108     | EPA 5030B/8260  | 557020   |                     |                  |
| 50254306009 | MW-109     | EPA 5030B/8260  | 557022   |                     |                  |
| 50254306010 | DUP-1      | EPA 5030B/8260  | 557022   |                     |                  |
| 50254306011 | MW-110     | EPA 5030B/8260  | 557022   |                     |                  |
| 50254306012 | MW-111     | EPA 5030B/8260  | 557022   |                     |                  |
| 50254306013 | MW-112     | EPA 5030B/8260  | 557022   |                     |                  |
| 50254306014 | MW-113     | EPA 5030B/8260  | 557022   |                     |                  |
| 50254306015 | MW-114     | EPA 5030B/8260  | 557022   |                     |                  |
| 50254306016 | MW-115     | EPA 5030B/8260  | 557022   |                     |                  |
| 50254306017 | DUP-2      | EPA 5030B/8260  | 557022   |                     |                  |
| 50254306018 | Trip Blank | EPA 5030B/8260  | 557022   |                     |                  |

### REPORT OF LABORATORY ANALYSIS

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**WO# : 50254306**



**50254306**

|                                     |                            |                                      |                               |                             |                        |
|-------------------------------------|----------------------------|--------------------------------------|-------------------------------|-----------------------------|------------------------|
| <b>Section A</b>                    |                            | <b>Section B</b>                     |                               | <b>Section C</b>            |                        |
| <b>Required Client Information:</b> |                            | <b>Required Project Information:</b> |                               | <b>Invoice Information:</b> |                        |
| Company: ATC Group Services - Novi  | Report To: Joshua Schuyler | Report To: Joshua Schuyler           | Company Name:                 | Attention:                  |                        |
| Address: 46556 Humboldt Drive       | Copy To:                   | Copy To:                             | Address:                      | Company Name:               |                        |
| Novi, MI 48377                      |                            |                                      | Project Name: 8 Mile Ferndale | Address:                    |                        |
|                                     |                            |                                      | Project #:                    | Face Quote:                 |                        |
|                                     |                            |                                      |                               | Face Profile #:             | 9157                   |
|                                     |                            |                                      |                               | Pace Project Manager:       | brian.hal@pacelabs.com |
|                                     |                            |                                      |                               | Regulatory Agency:          | MI                     |
|                                     |                            |                                      |                               | State / Location:           |                        |

| ITEM # | MATRIX      | SAMPLE TYPE (G-GRAB C-COMP) | COLLECTED |     | DATE    | TIME | DATE | TIME | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | DATE | TIME | SAMPLE CONDITIONS |      |
|--------|-------------|-----------------------------|-----------|-----|---------|------|------|------|------|------|---------------------------|------|------|------|------|-------------------|------|
|        |             |                             | START     | END |         |      |      |      |      |      |                           |      |      |      |      |                   | DATE |
| 1      | DW          | WT                          | 1334      |     | 4/18/20 | 1334 |      |      |      |      |                           |      |      |      |      |                   |      |
| 2      | Waste Water | WT                          | 1429      |     |         |      |      |      |      |      |                           |      |      |      |      |                   |      |
| 3      | Waste Water | WT                          | 1508      |     |         |      |      |      |      |      |                           |      |      |      |      |                   |      |
| 4      | Waste Water | WT                          | 1548      |     |         |      |      |      |      |      |                           |      |      |      |      |                   |      |
| 5      | Waste Water | WT                          | 1633      |     |         |      |      |      |      |      |                           |      |      |      |      |                   |      |
| 6      | Waste Water | WT                          | 1732      |     |         |      |      |      |      |      |                           |      |      |      |      |                   |      |
| 7      | Waste Water | WT                          | 1808      |     |         |      |      |      |      |      |                           |      |      |      |      |                   |      |
| 8      | Waste Water | WT                          | 1840      |     |         |      |      |      |      |      |                           |      |      |      |      |                   |      |
| 9      | Waste Water | WT                          | 1914      |     |         |      |      |      |      |      |                           |      |      |      |      |                   |      |
| 10     | Waste Water | WT                          | 0000      |     |         |      |      |      |      |      |                           |      |      |      |      |                   |      |
| 11     | Waste Water | WT                          | 0907      |     |         |      |      |      |      |      |                           |      |      |      |      |                   |      |
| 12     | Waste Water | WT                          | 0938      |     |         |      |      |      |      |      |                           |      |      |      |      |                   |      |

|  |  |             |  |             |  |                                      |  |             |  |             |  |                                      |  |             |  |             |  |
|--|--|-------------|--|-------------|--|--------------------------------------|--|-------------|--|-------------|--|--------------------------------------|--|-------------|--|-------------|--|
| <b>RELINQUISHED BY / AFFILIATION</b>                             |  | <b>DATE</b> |  | <b>TIME</b> |  | <b>ACCEPTED BY / AFFILIATION</b>     |  | <b>DATE</b> |  | <b>TIME</b> |  | <b>ACCEPTED BY / AFFILIATION</b>     |  | <b>DATE</b> |  | <b>TIME</b> |  |
| SPENCER OVERBECK<br>Spencer Overbeck / ATC                       |  | 4/18/20     |  | 1700        |  | SPENCER OVERBECK<br>Spencer Overbeck |  | 4-10-200825 |  | 1700        |  | SPENCER OVERBECK<br>Spencer Overbeck |  | 4-10-200825 |  | 1700        |  |
| <b>ADDITIONAL COMMENTS</b>                                       |  |             |  |             |  |                                      |  |             |  |             |  |                                      |  |             |  |             |  |
| Please Fill Triplicate Volume for MS/MSD Sample Points as Needed |  |             |  |             |  |                                      |  |             |  |             |  |                                      |  |             |  |             |  |
| <b>SAMPLER NAME AND SIGNATURE</b>                                |  |             |  |             |  |                                      |  |             |  |             |  |                                      |  |             |  |             |  |
| PRINT Name of SAMPLER: Spencer Overbeck                          |  |             |  |             |  |                                      |  |             |  |             |  |                                      |  |             |  |             |  |
| SIGNATURE of SAMPLER: <i>Spencer Overbeck</i>                    |  |             |  |             |  |                                      |  |             |  |             |  |                                      |  |             |  |             |  |
| DATE Signed: 4/19/20   |  |             |  |             |  |                                      |  |             |  |             |  |                                      |  |             |  |             |  |
| <b>TEMP in C</b>   |  |             |  |             |  |                                      |  |             |  |             |  |                                      |  |             |  |             |  |
| Received on  |  |             |  |             |  |                                      |  |             |  |             |  |                                      |  |             |  |             |  |
| Is   |  |             |  |             |  |                                      |  |             |  |             |  |                                      |  |             |  |             |  |
| Custody  |  |             |  |             |  |                                      |  |             |  |             |  |                                      |  |             |  |             |  |
| Sealed   |  |             |  |             |  |                                      |  |             |  |             |  |                                      |  |             |  |             |  |
| Cooler   |  |             |  |             |  |                                      |  |             |  |             |  |                                      |  |             |  |             |  |
| Intact   |  |             |  |             |  |                                      |  |             |  |             |  |                                      |  |             |  |             |  |





# CHAIN-OF-CUSTODY / Analytical Request

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed.

**WO#: 50254306**

PM: BJH Due Date: 04/21/20

CLIENT: GR-ATC

|                                     |                               |                                      |            |   |            |
|-------------------------------------|-------------------------------|--------------------------------------|------------|---|------------|
| <b>Section A</b>                    |                               | <b>Section B</b>                     |            | <b>Section C</b>                              |            |
| <b>Required Client Information:</b> |                               | <b>Required Project Information:</b> |            | <b>Invoice Information:</b>                   |            |
| Company: ATC Group Services - Novi  | Report To: Joshua Schuyler    | Company Name:                        | Attention: | Company Name:                                 | Attention: |
| Address: 46555 Humboldt Drive       | Copy To:                      | Address:                             |            | Address:                                      |            |
| Novi, MI 48377                      |                               | Purchase Order #:                    |            | Pace Quote:                                   |            |
| Email: joshua.schuyler@atcgs.com    | Project Name: 8 Mile Ferndale | Project #:                           |            | Pace Project Manager: brian.hall@pacelabs.com |            |
| Phone: (248)902-5378                |                               |                                      |            | Pace Profile #: 9157                          |            |
| Requested Due Date:                 |                               |                                      |            | Regulatory Agency:                            | MI         |
|                                     |                               |                                      |            | State / Location:                             |            |

| ITEM # | MATRIX         | CODE | COLLECTED  |          | SAMPLE TYPE (G-GRAB C-COMP) | MATRIX CODE (see valid codes to left) | PRESERVATIVES |          | ANALYSES TEST | REQUESTED ANALYSIS FILTERED (Y/N) | TEMP IN C | RECEIVED ON | CUSTODY | SEALED | COOLER | SAMPLER | INTEGRITY |             |
|--------|----------------|------|------------|----------|-----------------------------|---------------------------------------|---------------|----------|---------------|-----------------------------------|-----------|-------------|---------|--------|--------|---------|-----------|-------------|
|        |                |      | START DATE | END DATE |                             |                                       | START TIME    | END TIME |               |                                   |           |             |         |        |        |         |           | UNPRESERVED |
| 1      | Drinking Water | DW   | 1/19/20    | 1341     | G                           | WT 6                                  | 9.5           | 1.3      | 3             | 3                                 |           |             |         |        |        |         |           |             |
| 2      | Water          | WT   | 1423       |          |                             |                                       |               |          |               |                                   |           |             |         |        |        |         |           |             |
| 3      | Waste Water    | WW   | 1454       |          |                             |                                       |               |          |               |                                   |           |             |         |        |        |         |           |             |
| 4      | Product        | P    | 0000       |          |                             |                                       |               |          |               |                                   |           |             |         |        |        |         |           |             |
| 5      | Soil/Solid     | SL   |            |          |                             |                                       |               |          |               |                                   |           |             |         |        |        |         |           |             |
| 6      | Oil            | OL   |            |          |                             |                                       |               |          |               |                                   |           |             |         |        |        |         |           |             |
| 7      | Wipe           | WP   |            |          |                             |                                       |               |          |               |                                   |           |             |         |        |        |         |           |             |
| 8      | Air            | AR   |            |          |                             |                                       |               |          |               |                                   |           |             |         |        |        |         |           |             |
| 9      | Other          | OT   |            |          |                             |                                       |               |          |               |                                   |           |             |         |        |        |         |           |             |
| 10     | Tissue         | TS   |            |          |                             |                                       |               |          |               |                                   |           |             |         |        |        |         |           |             |
| 11     |                |      |            |          |                             |                                       |               |          |               |                                   |           |             |         |        |        |         |           |             |
| 12     |                |      |            |          |                             |                                       |               |          |               |                                   |           |             |         |        |        |         |           |             |

|  |  |                                      |             |                      |                                  |             |             |
|--|--|--------------------------------------|-------------|----------------------|----------------------------------|-------------|-------------|
| <b>ADDITIONAL COMMENTS</b>                                       |  | <b>RELINQUISHED BY / AFFILIATION</b> | <b>DATE</b> | <b>TIME</b>          | <b>ACCEPTED BY / AFFILIATION</b> | <b>DATE</b> | <b>TIME</b> |
| Please Fill Triplicate Volumes for MSMSD Sample Points as Needed |  | Spencer Overbeck / ATC               | 4/19/20     | 1705                 | [Signature]                      | 4.10.200825 |             |
| <b>SAMPLER NAME AND SIGNATURE</b>                                |  |                                      |             |                      |                                  |             |             |
| PRINT Name of SAMPLER: Spencer Overbeck                          |  |                                      |             | DATE Signed: 4/19/20 |                                  |             |             |
| SIGNATURE of SAMPLER: [Signature]                                |  |                                      |             |                      |                                  |             |             |





## Sample Conditions Upon Receipt Form (SCUR)

|                                      |  |                                    |   |  |  |                              |
|--------------------------------------|--|------------------------------------|---|--|--|------------------------------|
| Date/Time: <u>4-10-20</u>            |  | Evaluated by: <u>WDC</u>           |   | <b>WO# : 50254306</b>                    |  |                              |
| Client: <u>ATC Group</u>             |  | Profile ID:                        |   | PM: <u>BJH</u> Due Date: <u>04/21/20</u> |  |                              |
| Project Manager: <u>BJH</u>          |  | Profile ID:                        |   | CLIENT: <u>GR-ATC</u>                    |  |                              |
| Rush TAT Requested:                  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO        | Due Date:                               |  |  |                              |
| Lab Notified of Rush or Short Holds: | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO        | Non Conformance Form Required:          | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO                    |                              |
| Samples Received Via:                | <input checked="" type="checkbox"/> FedEx  | <input type="checkbox"/> UPS       | <input type="checkbox"/> Client         | <input type="checkbox"/> Pace Courier    | <input type="checkbox"/> Other: _____          | Comments:                    |
| Custody Seals Present and Intact:    | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO        | <input type="checkbox"/> NA             |  |  |                              |
| Received Sample Information Form(s): | Drinking Waters Only   |                                    | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO              | <input type="checkbox"/> NA                    |                              |
| USDA Regulated Soils:                | (AL, AR, CA, FL, GA, ID, LA, MS, NM, NY, NC, OK, OR, SC, TN, TX, WA or Puerto Rico)  |                                    | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO              | <input type="checkbox"/> N/A                   |                              |
| Short Holds Present (< 72 Hours):    | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO        | <input type="checkbox"/> NA             |  |  |                              |
| Samples Received in Hold:            | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO        | <input type="checkbox"/> NA             |  |  |                              |
| Custody Signatures Present:          | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO        | <input type="checkbox"/> NA             |  |  |                              |
| Collector Signature Present:         | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO        | <input type="checkbox"/> NA             |  |  |                              |
| Packing Material Used:               | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO        | <input type="checkbox"/> NA             |  |  |                              |
| Samples Collected Today and On Ice:  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO        | <input type="checkbox"/> N/A            |  |  |                              |
| IR Gun #:                            | <u>280</u>   | <u>281</u>                         | Digital Thermometer #:                  | <u>282</u>                               | <u>283</u>                                     |                              |
| Ice Type:                            | <input checked="" type="checkbox"/> WET Bagged   | <input type="checkbox"/> WET Loose | <input type="checkbox"/> BLUE           | <input type="checkbox"/> NONE            | 1. Cooler Temp Upon Receipt: <u>2.7/3.5</u> °C |                              |
| Ice Location:                        | <input checked="" type="checkbox"/> TOP  | <input type="checkbox"/> BOTTOM    | <input type="checkbox"/> MIDDLE         | <input type="checkbox"/> DISPERSED       | Temp should be 0-6°C (Initial/Corrected)       |                              |
| Temp Blank Received:                 | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO        | <input type="checkbox"/> NA             | <u>X3</u>                                |  |                              |
| Containers Intact:                   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO        | <input type="checkbox"/> NA             |  |  |                              |
| Correct Containers:                  | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO        | <input type="checkbox"/> NA             |  |  |                              |
| Sufficient Volume:                   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO        | <input type="checkbox"/> NA             |  |  |                              |
| Sample pH Acceptable:                | All containers needing preservation are found to be in compliance with EPA recommendation. Exceptions are VOA, coliform, LLHg, O&G, or any container with a septum cap or preserved with HCl |                                    |   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO                    | <input type="checkbox"/> N/A |
| Residual Chlorine Absent:            | (SVOC/Pest 625, PCB 608, Total/Amenable/Available Cyanide)   |                                    |   | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO                    | <input type="checkbox"/> N/A |
| VOA Headspace Acceptable (<6mm):     | <input checked="" type="checkbox"/> YES  | <input type="checkbox"/> NO        | <input type="checkbox"/> N/A            |  |  |                              |
| Trip Blank Received:                 | <input checked="" type="checkbox"/> HCl  | <input type="checkbox"/> MeOH      | <input type="checkbox"/> TSP            | <input type="checkbox"/> OTHER           | <input checked="" type="checkbox"/> YES        | <input type="checkbox"/> NO  |
| Comments:                            | 2. Cooler Temp Upon Receipt: <u>2.2/3.0</u> °C   |                                    |   |  |  |                              |
|                                      | 3. Cooler Temp Upon Receipt: <u>1.6/2.4</u> °C   |                                    |   |  |  |                              |
|                                      | 4. Cooler Temp Upon Receipt: _____ °C  |                                    |   |  |  |                              |

April 29, 2020

Joshua Schuyler  
ATC Group Services - Novi  
46555 Humboldt Drive  
Suite 100  
Novi, MI 48377

RE: Project: 8 Mile Ferndale  
Pace Project No.: 50255371

Dear Joshua Schuyler:

Enclosed are the analytical results for sample(s) received by the laboratory on April 24, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Brian Hall  
brian.hall@pacelabs.com  
(616)975-4500  
Project Manager

Enclosures

cc: AP c/o Abigail Jardine, ATC Group Services  
Michael Hauswirth, ATC Group Services  
April Hehir



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## CERTIFICATIONS

Project: 8 Mile Ferndale  
Pace Project No.: 50255371

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### **Pace Analytical Services Indianapolis**

7726 Moller Road, Indianapolis, IN 46268  
Illinois Accreditation #: 200074  
Indiana Drinking Water Laboratory #: C-49-06  
Kansas/TNI Certification #: E-10177  
Kentucky UST Agency Interest #: 80226  
Kentucky WW Laboratory ID #: 98019  
Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065  
Oklahoma Laboratory #: 9204  
Texas Certification #: T104704355  
West Virginia Certification #: 330  
Wisconsin Laboratory #: 999788130  
USDA Soil Permit #: P330-19-00257

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 8 Mile Ferndale  
Pace Project No.: 50255371

| Lab ID      | Sample ID  | Matrix | Date Collected | Date Received  |
|-------------|------------|--------|----------------|----------------|
| 50255371001 | MW-119     | Water  | 04/23/20 15:15 | 04/24/20 09:30 |
| 50255371002 | MW-120     | Water  | 04/23/20 14:40 | 04/24/20 09:30 |
| 50255371003 | MW-121     | Water  | 04/23/20 13:45 | 04/24/20 09:30 |
| 50255371004 | Dup-1      | Water  | 04/23/20 00:00 | 04/24/20 09:30 |
| 50255371005 | Trip Blank | Water  | 04/23/20 17:00 | 04/24/20 09:30 |

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 8 Mile Ferndale  
Pace Project No.: 50255371

| Lab ID      | Sample ID  | Method         | Analysts | Analytes Reported |
|-------------|------------|----------------|----------|-------------------|
| 50255371001 | MW-119     | EPA 5030B/8260 | JPV      | 75                |
| 50255371002 | MW-120     | EPA 5030B/8260 | JPV      | 75                |
| 50255371003 | MW-121     | EPA 5030B/8260 | JPV      | 75                |
| 50255371004 | Dup-1      | EPA 5030B/8260 | JPV      | 75                |
| 50255371005 | Trip Blank | EPA 5030B/8260 | JPV      | 75                |

PASI-I = Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50255371

Sample: **MW-119** Lab ID: **50255371001** Collected: 04/23/20 15:15 Received: 04/24/20 09:30 Matrix: Water

| Parameters                  | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>   |         | Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Acetone                     | <50.0   | ug/L   | 50.0 | 50.0 | 1  |          | 04/25/20 01:08 | 67-64-1    |      |
| Acrylonitrile               | <2.0    | ug/L   | 2.0  | 2.0  | 1  |          | 04/25/20 01:08 | 107-13-1   |      |
| tert-Amylmethyl ether       | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/25/20 01:08 | 994-05-8   | N2   |
| Benzene                     | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 01:08 | 71-43-2    |      |
| Bromobenzene                | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 01:08 | 108-86-1   |      |
| Bromochloromethane          | <0.59   | ug/L   | 1.0  | 0.59 | 1  |          | 04/25/20 01:08 | 74-97-5    |      |
| Bromodichloromethane        | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 01:08 | 75-27-4    |      |
| Bromoform                   | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 01:08 | 75-25-2    |      |
| Bromomethane                | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/25/20 01:08 | 74-83-9    |      |
| 2-Butanone (MEK)            | <25.0   | ug/L   | 25.0 | 25.0 | 1  |          | 04/25/20 01:08 | 78-93-3    |      |
| tert-Butyl Alcohol          | <50.0   | ug/L   | 50.0 | 50.0 | 1  |          | 04/25/20 01:08 | 75-65-0    |      |
| n-Butylbenzene              | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 01:08 | 104-51-8   |      |
| sec-Butylbenzene            | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 01:08 | 135-98-8   |      |
| tert-Butylbenzene           | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 01:08 | 98-06-6    |      |
| Carbon disulfide            | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/25/20 01:08 | 75-15-0    |      |
| Carbon tetrachloride        | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 01:08 | 56-23-5    |      |
| Chlorobenzene               | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 01:08 | 108-90-7   |      |
| Chloroethane                | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/25/20 01:08 | 75-00-3    |      |
| Chloroform                  | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 01:08 | 67-66-3    |      |
| Chloromethane               | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/25/20 01:08 | 74-87-3    |      |
| Cyclohexane                 | <10.0   | ug/L   | 10.0 | 10.0 | 1  |          | 04/25/20 01:08 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane | <0.25   | ug/L   | 0.50 | 0.25 | 1  |          | 04/25/20 01:08 | 96-12-8    |      |
| Dibromochloromethane        | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/25/20 01:08 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | <0.23   | ug/L   | 0.50 | 0.23 | 1  |          | 04/25/20 01:08 | 106-93-4   |      |
| Dibromomethane              | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/25/20 01:08 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 01:08 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 01:08 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 01:08 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | <0.82   | ug/L   | 100  | 0.82 | 1  |          | 04/25/20 01:08 | 110-57-6   |      |
| Dichlorodifluoromethane     | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/25/20 01:08 | 75-71-8    |      |
| 1,1-Dichloroethane          | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 01:08 | 75-34-3    |      |
| 1,2-Dichloroethane          | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 01:08 | 107-06-2   |      |
| 1,1-Dichloroethene          | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 01:08 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 01:08 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 01:08 | 156-60-5   |      |
| 1,2-Dichloropropane         | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 01:08 | 78-87-5    |      |
| cis-1,3-Dichloropropene     | <100    | ug/L   | 100  | 100  | 1  |          | 04/25/20 01:08 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | <100    | ug/L   | 100  | 100  | 1  |          | 04/25/20 01:08 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether) | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/25/20 01:08 | 60-29-7    |      |
| Diisopropyl ether           | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/25/20 01:08 | 108-20-3   | N2   |
| Ethylbenzene                | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 01:08 | 100-41-4   |      |
| Ethyl-tert-butyl ether      | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/25/20 01:08 | 637-92-3   | N2   |
| Hexachloroethane            | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/25/20 01:08 | 67-72-1    | N2   |
| 2-Hexanone                  | <50.0   | ug/L   | 50.0 | 50.0 | 1  |          | 04/25/20 01:08 | 591-78-6   |      |
| Iodomethane                 | <0.45   | ug/L   | 5.0  | 0.45 | 1  |          | 04/25/20 01:08 | 74-88-4    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50255371

**Sample: MW-119**      **Lab ID: 50255371001**      Collected: 04/23/20 15:15      Received: 04/24/20 09:30      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 01:08 | 98-82-8     |      |
| p-Isopropyltoluene                      | <0.28   | ug/L  | 1.0    | 0.28 | 1  |          | 04/25/20 01:08 | 99-87-6     |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 01:08 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0   | 5.0  | 1  |          | 04/25/20 01:08 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0   | 50.0 | 1  |          | 04/25/20 01:08 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 01:08 | 1634-04-4   |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 01:08 | 91-20-3     |      |
| n-Propylbenzene                         | <100    | ug/L  | 100    | 100  | 1  |          | 04/25/20 01:08 | 103-65-1    |      |
| Styrene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 01:08 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 01:08 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 01:08 | 79-34-5     |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 01:08 | 127-18-4    |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0   | 90.0 | 1  |          | 04/25/20 01:08 | 109-99-9    | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 01:08 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 01:08 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 01:08 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 01:08 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 01:08 | 79-00-5     |      |
| Trichloroethene                         | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 01:08 | 79-01-6     |      |
| Trichlorofluoromethane                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 04/25/20 01:08 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 01:08 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 01:08 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/25/20 01:08 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/25/20 01:08 | 108-67-8    |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 01:08 | 75-01-4     |      |
| m&p-Xylene                              | <0.16   | ug/L  | 2.0    | 0.16 | 1  |          | 04/25/20 01:08 | 179601-23-1 |      |
| o-Xylene                                | <0.39   | ug/L  | 1.0    | 0.39 | 1  |          | 04/25/20 01:08 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 95      | %     | 85-116 |      | 1  |          | 04/25/20 01:08 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 103     | %     | 75-120 |      | 1  |          | 04/25/20 01:08 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 98      | %     | 83-111 |      | 1  |          | 04/25/20 01:08 | 2037-26-5   |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50255371

**Sample: MW-120**      **Lab ID: 50255371002**      Collected: 04/23/20 14:40      Received: 04/24/20 09:30      Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| Acetone                                 | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/25/20 01:41 | 67-64-1    |      |
| Acrylonitrile                           | <2.0    | ug/L  | 2.0  | 2.0  | 1  |          | 04/25/20 01:41 | 107-13-1   |      |
| tert-Amylmethyl ether                   | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 01:41 | 994-05-8   | N2   |
| Benzene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 01:41 | 71-43-2    |      |
| Bromobenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 01:41 | 108-86-1   |      |
| Bromochloromethane                      | <0.59   | ug/L  | 1.0  | 0.59 | 1  |          | 04/25/20 01:41 | 74-97-5    |      |
| Bromodichloromethane                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 01:41 | 75-27-4    |      |
| Bromoform                               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 01:41 | 75-25-2    |      |
| Bromomethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 01:41 | 74-83-9    |      |
| 2-Butanone (MEK)                        | <25.0   | ug/L  | 25.0 | 25.0 | 1  |          | 04/25/20 01:41 | 78-93-3    |      |
| tert-Butyl Alcohol                      | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/25/20 01:41 | 75-65-0    |      |
| n-Butylbenzene                          | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 01:41 | 104-51-8   |      |
| sec-Butylbenzene                        | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 01:41 | 135-98-8   |      |
| tert-Butylbenzene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 01:41 | 98-06-6    |      |
| Carbon disulfide                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 01:41 | 75-15-0    |      |
| Carbon tetrachloride                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 01:41 | 56-23-5    |      |
| Chlorobenzene                           | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 01:41 | 108-90-7   |      |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 01:41 | 75-00-3    |      |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 01:41 | 67-66-3    |      |
| Chloromethane                           | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 01:41 | 74-87-3    |      |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 04/25/20 01:41 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 04/25/20 01:41 | 96-12-8    |      |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 01:41 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 04/25/20 01:41 | 106-93-4   |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 01:41 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 01:41 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 01:41 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 01:41 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.82   | ug/L  | 100  | 0.82 | 1  |          | 04/25/20 01:41 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 01:41 | 75-71-8    |      |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 01:41 | 75-34-3    |      |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 01:41 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 01:41 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 01:41 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 01:41 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 01:41 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 04/25/20 01:41 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 04/25/20 01:41 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 01:41 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 01:41 | 108-20-3   | N2   |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 01:41 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 01:41 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 01:41 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/25/20 01:41 | 591-78-6   |      |
| Iodomethane                             | <0.45   | ug/L  | 5.0  | 0.45 | 1  |          | 04/25/20 01:41 | 74-88-4    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50255371

**Sample: MW-120**      **Lab ID: 50255371002**      Collected: 04/23/20 14:40      Received: 04/24/20 09:30      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 01:41 | 98-82-8     |      |
| p-Isopropyltoluene                      | <0.28   | ug/L  | 1.0    | 0.28 | 1  |          | 04/25/20 01:41 | 99-87-6     |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 01:41 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0   | 5.0  | 1  |          | 04/25/20 01:41 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0   | 50.0 | 1  |          | 04/25/20 01:41 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 01:41 | 1634-04-4   |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 01:41 | 91-20-3     |      |
| n-Propylbenzene                         | <100    | ug/L  | 100    | 100  | 1  |          | 04/25/20 01:41 | 103-65-1    |      |
| Styrene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 01:41 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 01:41 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 01:41 | 79-34-5     |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 01:41 | 127-18-4    |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0   | 90.0 | 1  |          | 04/25/20 01:41 | 109-99-9    | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 01:41 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 01:41 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 01:41 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 01:41 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 01:41 | 79-00-5     |      |
| Trichloroethene                         | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 01:41 | 79-01-6     |      |
| Trichlorofluoromethane                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 04/25/20 01:41 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 01:41 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 01:41 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/25/20 01:41 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/25/20 01:41 | 108-67-8    |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 01:41 | 75-01-4     |      |
| m&p-Xylene                              | <0.16   | ug/L  | 2.0    | 0.16 | 1  |          | 04/25/20 01:41 | 179601-23-1 |      |
| o-Xylene                                | <0.39   | ug/L  | 1.0    | 0.39 | 1  |          | 04/25/20 01:41 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 99      | %     | 85-116 |      | 1  |          | 04/25/20 01:41 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 100     | %     | 75-120 |      | 1  |          | 04/25/20 01:41 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 98      | %     | 83-111 |      | 1  |          | 04/25/20 01:41 | 2037-26-5   |      |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50255371

Sample: MW-121 Lab ID: 50255371003 Collected: 04/23/20 13:45 Received: 04/24/20 09:30 Matrix: Water

| Parameters                  | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>   |         | Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Acetone                     | <50.0   | ug/L   | 50.0 | 50.0 | 1  |          | 04/25/20 02:13 | 67-64-1    |      |
| Acrylonitrile               | <2.0    | ug/L   | 2.0  | 2.0  | 1  |          | 04/25/20 02:13 | 107-13-1   |      |
| tert-Amylmethyl ether       | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/25/20 02:13 | 994-05-8   | N2   |
| Benzene                     | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 02:13 | 71-43-2    |      |
| Bromobenzene                | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 02:13 | 108-86-1   |      |
| Bromochloromethane          | <0.59   | ug/L   | 1.0  | 0.59 | 1  |          | 04/25/20 02:13 | 74-97-5    |      |
| Bromodichloromethane        | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 02:13 | 75-27-4    |      |
| Bromoform                   | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 02:13 | 75-25-2    |      |
| Bromomethane                | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/25/20 02:13 | 74-83-9    |      |
| 2-Butanone (MEK)            | <25.0   | ug/L   | 25.0 | 25.0 | 1  |          | 04/25/20 02:13 | 78-93-3    |      |
| tert-Butyl Alcohol          | <50.0   | ug/L   | 50.0 | 50.0 | 1  |          | 04/25/20 02:13 | 75-65-0    |      |
| n-Butylbenzene              | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 02:13 | 104-51-8   |      |
| sec-Butylbenzene            | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 02:13 | 135-98-8   |      |
| tert-Butylbenzene           | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 02:13 | 98-06-6    |      |
| Carbon disulfide            | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/25/20 02:13 | 75-15-0    |      |
| Carbon tetrachloride        | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 02:13 | 56-23-5    |      |
| Chlorobenzene               | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 02:13 | 108-90-7   |      |
| Chloroethane                | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/25/20 02:13 | 75-00-3    |      |
| Chloroform                  | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 02:13 | 67-66-3    |      |
| Chloromethane               | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/25/20 02:13 | 74-87-3    |      |
| Cyclohexane                 | <10.0   | ug/L   | 10.0 | 10.0 | 1  |          | 04/25/20 02:13 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane | <0.25   | ug/L   | 0.50 | 0.25 | 1  |          | 04/25/20 02:13 | 96-12-8    |      |
| Dibromochloromethane        | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/25/20 02:13 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | <0.23   | ug/L   | 0.50 | 0.23 | 1  |          | 04/25/20 02:13 | 106-93-4   |      |
| Dibromomethane              | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/25/20 02:13 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 02:13 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 02:13 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 02:13 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | <0.82   | ug/L   | 100  | 0.82 | 1  |          | 04/25/20 02:13 | 110-57-6   |      |
| Dichlorodifluoromethane     | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/25/20 02:13 | 75-71-8    |      |
| 1,1-Dichloroethane          | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 02:13 | 75-34-3    |      |
| 1,2-Dichloroethane          | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 02:13 | 107-06-2   |      |
| 1,1-Dichloroethene          | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 02:13 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 02:13 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 02:13 | 156-60-5   |      |
| 1,2-Dichloropropane         | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 02:13 | 78-87-5    |      |
| cis-1,3-Dichloropropene     | <100    | ug/L   | 100  | 100  | 1  |          | 04/25/20 02:13 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | <100    | ug/L   | 100  | 100  | 1  |          | 04/25/20 02:13 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether) | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/25/20 02:13 | 60-29-7    |      |
| Diisopropyl ether           | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/25/20 02:13 | 108-20-3   | N2   |
| Ethylbenzene                | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 04/25/20 02:13 | 100-41-4   |      |
| Ethyl-tert-butyl ether      | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/25/20 02:13 | 637-92-3   | N2   |
| Hexachloroethane            | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 04/25/20 02:13 | 67-72-1    | N2   |
| 2-Hexanone                  | <50.0   | ug/L   | 50.0 | 50.0 | 1  |          | 04/25/20 02:13 | 591-78-6   |      |
| Iodomethane                 | <0.45   | ug/L   | 5.0  | 0.45 | 1  |          | 04/25/20 02:13 | 74-88-4    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50255371

**Sample: MW-121**      **Lab ID: 50255371003**      Collected: 04/23/20 13:45      Received: 04/24/20 09:30      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 02:13 | 98-82-8     |      |
| p-Isopropyltoluene                      | <0.28   | ug/L  | 1.0    | 0.28 | 1  |          | 04/25/20 02:13 | 99-87-6     |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 02:13 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0   | 5.0  | 1  |          | 04/25/20 02:13 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0   | 50.0 | 1  |          | 04/25/20 02:13 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 02:13 | 1634-04-4   |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 02:13 | 91-20-3     |      |
| n-Propylbenzene                         | <100    | ug/L  | 100    | 100  | 1  |          | 04/25/20 02:13 | 103-65-1    |      |
| Styrene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 02:13 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 02:13 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 02:13 | 79-34-5     |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 02:13 | 127-18-4    |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0   | 90.0 | 1  |          | 04/25/20 02:13 | 109-99-9    | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 02:13 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 02:13 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 02:13 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 02:13 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 02:13 | 79-00-5     |      |
| Trichloroethene                         | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 02:13 | 79-01-6     |      |
| Trichlorofluoromethane                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 04/25/20 02:13 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 02:13 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 02:13 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/25/20 02:13 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/25/20 02:13 | 108-67-8    |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 02:13 | 75-01-4     |      |
| m&p-Xylene                              | <0.16   | ug/L  | 2.0    | 0.16 | 1  |          | 04/25/20 02:13 | 179601-23-1 |      |
| o-Xylene                                | <0.39   | ug/L  | 1.0    | 0.39 | 1  |          | 04/25/20 02:13 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 98      | %     | 85-116 |      | 1  |          | 04/25/20 02:13 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 101     | %     | 75-120 |      | 1  |          | 04/25/20 02:13 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 98      | %     | 83-111 |      | 1  |          | 04/25/20 02:13 | 2037-26-5   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50255371

Sample: Dup-1 Lab ID: 50255371004 Collected: 04/23/20 00:00 Received: 04/24/20 09:30 Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| Acetone                                 | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/25/20 02:46 | 67-64-1    |      |
| Acrylonitrile                           | <2.0    | ug/L  | 2.0  | 2.0  | 1  |          | 04/25/20 02:46 | 107-13-1   |      |
| tert-Amylmethyl ether                   | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 02:46 | 994-05-8   | N2   |
| Benzene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 02:46 | 71-43-2    |      |
| Bromobenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 02:46 | 108-86-1   |      |
| Bromochloromethane                      | <0.59   | ug/L  | 1.0  | 0.59 | 1  |          | 04/25/20 02:46 | 74-97-5    |      |
| Bromodichloromethane                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 02:46 | 75-27-4    |      |
| Bromoform                               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 02:46 | 75-25-2    |      |
| Bromomethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 02:46 | 74-83-9    |      |
| 2-Butanone (MEK)                        | <25.0   | ug/L  | 25.0 | 25.0 | 1  |          | 04/25/20 02:46 | 78-93-3    |      |
| tert-Butyl Alcohol                      | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/25/20 02:46 | 75-65-0    |      |
| n-Butylbenzene                          | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 02:46 | 104-51-8   |      |
| sec-Butylbenzene                        | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 02:46 | 135-98-8   |      |
| tert-Butylbenzene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 02:46 | 98-06-6    |      |
| Carbon disulfide                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 02:46 | 75-15-0    |      |
| Carbon tetrachloride                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 02:46 | 56-23-5    |      |
| Chlorobenzene                           | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 02:46 | 108-90-7   |      |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 02:46 | 75-00-3    |      |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 02:46 | 67-66-3    |      |
| Chloromethane                           | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 02:46 | 74-87-3    |      |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 04/25/20 02:46 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 04/25/20 02:46 | 96-12-8    |      |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 02:46 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 04/25/20 02:46 | 106-93-4   |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 02:46 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 02:46 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 02:46 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 02:46 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.82   | ug/L  | 100  | 0.82 | 1  |          | 04/25/20 02:46 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 02:46 | 75-71-8    |      |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 02:46 | 75-34-3    |      |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 02:46 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 02:46 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 02:46 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 02:46 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 02:46 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 04/25/20 02:46 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 04/25/20 02:46 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 02:46 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 02:46 | 108-20-3   | N2   |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 02:46 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 02:46 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 02:46 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/25/20 02:46 | 591-78-6   |      |
| Iodomethane                             | <0.45   | ug/L  | 5.0  | 0.45 | 1  |          | 04/25/20 02:46 | 74-88-4    |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50255371

**Sample: Dup-1**      **Lab ID: 50255371004**      Collected: 04/23/20 00:00      Received: 04/24/20 09:30      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 02:46 | 98-82-8     |      |
| p-Isopropyltoluene                      | <0.28   | ug/L  | 1.0    | 0.28 | 1  |          | 04/25/20 02:46 | 99-87-6     |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 02:46 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0   | 5.0  | 1  |          | 04/25/20 02:46 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0   | 50.0 | 1  |          | 04/25/20 02:46 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 02:46 | 1634-04-4   |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 02:46 | 91-20-3     |      |
| n-Propylbenzene                         | <100    | ug/L  | 100    | 100  | 1  |          | 04/25/20 02:46 | 103-65-1    |      |
| Styrene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 02:46 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 02:46 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 02:46 | 79-34-5     |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 02:46 | 127-18-4    |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0   | 90.0 | 1  |          | 04/25/20 02:46 | 109-99-9    | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 02:46 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 02:46 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 02:46 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 02:46 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 02:46 | 79-00-5     |      |
| Trichloroethene                         | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 02:46 | 79-01-6     |      |
| Trichlorofluoromethane                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 04/25/20 02:46 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 02:46 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 02:46 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/25/20 02:46 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/25/20 02:46 | 108-67-8    |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 02:46 | 75-01-4     |      |
| m&p-Xylene                              | <0.16   | ug/L  | 2.0    | 0.16 | 1  |          | 04/25/20 02:46 | 179601-23-1 |      |
| o-Xylene                                | <0.39   | ug/L  | 1.0    | 0.39 | 1  |          | 04/25/20 02:46 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 99      | %     | 85-116 |      | 1  |          | 04/25/20 02:46 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 105     | %     | 75-120 |      | 1  |          | 04/25/20 02:46 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 98      | %     | 83-111 |      | 1  |          | 04/25/20 02:46 | 2037-26-5   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50255371

Sample: Trip Blank Lab ID: 50255371005 Collected: 04/23/20 17:00 Received: 04/24/20 09:30 Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| Acetone                                 | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/25/20 03:18 | 67-64-1    |      |
| Acrylonitrile                           | <2.0    | ug/L  | 2.0  | 2.0  | 1  |          | 04/25/20 03:18 | 107-13-1   |      |
| tert-Amylmethyl ether                   | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 03:18 | 994-05-8   | N2   |
| Benzene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 03:18 | 71-43-2    |      |
| Bromobenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 03:18 | 108-86-1   |      |
| Bromochloromethane                      | <0.59   | ug/L  | 1.0  | 0.59 | 1  |          | 04/25/20 03:18 | 74-97-5    |      |
| Bromodichloromethane                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 03:18 | 75-27-4    |      |
| Bromoform                               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 03:18 | 75-25-2    |      |
| Bromomethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 03:18 | 74-83-9    |      |
| 2-Butanone (MEK)                        | <25.0   | ug/L  | 25.0 | 25.0 | 1  |          | 04/25/20 03:18 | 78-93-3    |      |
| tert-Butyl Alcohol                      | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/25/20 03:18 | 75-65-0    |      |
| n-Butylbenzene                          | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 03:18 | 104-51-8   |      |
| sec-Butylbenzene                        | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 03:18 | 135-98-8   |      |
| tert-Butylbenzene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 03:18 | 98-06-6    |      |
| Carbon disulfide                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 03:18 | 75-15-0    |      |
| Carbon tetrachloride                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 03:18 | 56-23-5    |      |
| Chlorobenzene                           | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 03:18 | 108-90-7   |      |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 03:18 | 75-00-3    |      |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 03:18 | 67-66-3    |      |
| Chloromethane                           | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 03:18 | 74-87-3    |      |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 04/25/20 03:18 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 04/25/20 03:18 | 96-12-8    |      |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 03:18 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 04/25/20 03:18 | 106-93-4   |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 03:18 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 03:18 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 03:18 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 03:18 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.82   | ug/L  | 100  | 0.82 | 1  |          | 04/25/20 03:18 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 03:18 | 75-71-8    |      |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 03:18 | 75-34-3    |      |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 03:18 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 03:18 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 03:18 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 03:18 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 03:18 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 04/25/20 03:18 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 04/25/20 03:18 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 03:18 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 03:18 | 108-20-3   | N2   |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 04/25/20 03:18 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 03:18 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 04/25/20 03:18 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 04/25/20 03:18 | 591-78-6   |      |
| Iodomethane                             | <0.45   | ug/L  | 5.0  | 0.45 | 1  |          | 04/25/20 03:18 | 74-88-4    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale  
Pace Project No.: 50255371

**Sample: Trip Blank**      **Lab ID: 50255371005**      Collected: 04/23/20 17:00      Received: 04/24/20 09:30      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 03:18 | 98-82-8     |      |
| p-Isopropyltoluene                      | <0.28   | ug/L  | 1.0    | 0.28 | 1  |          | 04/25/20 03:18 | 99-87-6     |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 03:18 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0   | 5.0  | 1  |          | 04/25/20 03:18 | 91-57-6     | N2   |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0   | 50.0 | 1  |          | 04/25/20 03:18 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 03:18 | 1634-04-4   |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 03:18 | 91-20-3     |      |
| n-Propylbenzene                         | <100    | ug/L  | 100    | 100  | 1  |          | 04/25/20 03:18 | 103-65-1    |      |
| Styrene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 03:18 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 03:18 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 03:18 | 79-34-5     |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 03:18 | 127-18-4    |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0   | 90.0 | 1  |          | 04/25/20 03:18 | 109-99-9    | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 03:18 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 03:18 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 03:18 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 03:18 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 03:18 | 79-00-5     |      |
| Trichloroethene                         | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 03:18 | 79-01-6     |      |
| Trichlorofluoromethane                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 04/25/20 03:18 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 03:18 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 04/25/20 03:18 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/25/20 03:18 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 04/25/20 03:18 | 108-67-8    |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 04/25/20 03:18 | 75-01-4     |      |
| m&p-Xylene                              | <0.16   | ug/L  | 2.0    | 0.16 | 1  |          | 04/25/20 03:18 | 179601-23-1 |      |
| o-Xylene                                | <0.39   | ug/L  | 1.0    | 0.39 | 1  |          | 04/25/20 03:18 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 96      | %     | 85-116 |      | 1  |          | 04/25/20 03:18 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 107     | %     | 75-120 |      | 1  |          | 04/25/20 03:18 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 98      | %     | 83-111 |      | 1  |          | 04/25/20 03:18 | 2037-26-5   |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50255371

QC Batch: 558827 Analysis Method: EPA 5030B/8260  
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Low Level  
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50255371001, 50255371002, 50255371003, 50255371004, 50255371005

METHOD BLANK: 2577120 Matrix: Water  
Associated Lab Samples: 50255371001, 50255371002, 50255371003, 50255371004, 50255371005

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/L  | <1.0         | 1.0             | 1.0  | 04/25/20 00:03 |            |
| 1,1,1-Trichloroethane       | ug/L  | <1.0         | 1.0             | 1.0  | 04/25/20 00:03 |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | <1.0         | 1.0             | 1.0  | 04/25/20 00:03 |            |
| 1,1,2-Trichloroethane       | ug/L  | <1.0         | 1.0             | 1.0  | 04/25/20 00:03 |            |
| 1,1-Dichloroethane          | ug/L  | <1.0         | 1.0             | 1.0  | 04/25/20 00:03 |            |
| 1,1-Dichloroethene          | ug/L  | <1.0         | 1.0             | 1.0  | 04/25/20 00:03 |            |
| 1,2,3-Trichlorobenzene      | ug/L  | <5.0         | 5.0             | 5.0  | 04/25/20 00:03 |            |
| 1,2,3-Trichloropropane      | ug/L  | <1.0         | 1.0             | 1.0  | 04/25/20 00:03 |            |
| 1,2,3-Trimethylbenzene      | ug/L  | <5.0         | 5.0             | 5.0  | 04/25/20 00:03 | N2         |
| 1,2,4-Trichlorobenzene      | ug/L  | <5.0         | 5.0             | 5.0  | 04/25/20 00:03 |            |
| 1,2,4-Trimethylbenzene      | ug/L  | <1.0         | 5.0             | 1.0  | 04/25/20 00:03 |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | <0.25        | 0.50            | 0.25 | 04/25/20 00:03 |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | <0.23        | 0.50            | 0.23 | 04/25/20 00:03 |            |
| 1,2-Dichlorobenzene         | ug/L  | <1.0         | 1.0             | 1.0  | 04/25/20 00:03 |            |
| 1,2-Dichloroethane          | ug/L  | <1.0         | 1.0             | 1.0  | 04/25/20 00:03 |            |
| 1,2-Dichloropropane         | ug/L  | <1.0         | 1.0             | 1.0  | 04/25/20 00:03 |            |
| 1,3,5-Trimethylbenzene      | ug/L  | <1.0         | 5.0             | 1.0  | 04/25/20 00:03 |            |
| 1,3-Dichlorobenzene         | ug/L  | <1.0         | 1.0             | 1.0  | 04/25/20 00:03 |            |
| 1,4-Dichlorobenzene         | ug/L  | <1.0         | 1.0             | 1.0  | 04/25/20 00:03 |            |
| 2-Butanone (MEK)            | ug/L  | <25.0        | 25.0            | 25.0 | 04/25/20 00:03 |            |
| 2-Hexanone                  | ug/L  | <50.0        | 50.0            | 50.0 | 04/25/20 00:03 |            |
| 2-Methylnaphthalene         | ug/L  | <5.0         | 20.0            | 5.0  | 04/25/20 00:03 | N2         |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | <50.0        | 50.0            | 50.0 | 04/25/20 00:03 |            |
| Acetone                     | ug/L  | <50.0        | 50.0            | 50.0 | 04/25/20 00:03 |            |
| Acrylonitrile               | ug/L  | <2.0         | 2.0             | 2.0  | 04/25/20 00:03 |            |
| Benzene                     | ug/L  | <1.0         | 1.0             | 1.0  | 04/25/20 00:03 |            |
| Bromobenzene                | ug/L  | <1.0         | 1.0             | 1.0  | 04/25/20 00:03 |            |
| Bromochloromethane          | ug/L  | <0.59        | 1.0             | 0.59 | 04/25/20 00:03 |            |
| Bromodichloromethane        | ug/L  | <1.0         | 1.0             | 1.0  | 04/25/20 00:03 |            |
| Bromoform                   | ug/L  | <1.0         | 1.0             | 1.0  | 04/25/20 00:03 |            |
| Bromomethane                | ug/L  | <5.0         | 5.0             | 5.0  | 04/25/20 00:03 |            |
| Carbon disulfide            | ug/L  | <5.0         | 5.0             | 5.0  | 04/25/20 00:03 |            |
| Carbon tetrachloride        | ug/L  | <1.0         | 1.0             | 1.0  | 04/25/20 00:03 |            |
| Chlorobenzene               | ug/L  | <1.0         | 1.0             | 1.0  | 04/25/20 00:03 |            |
| Chloroethane                | ug/L  | <5.0         | 5.0             | 5.0  | 04/25/20 00:03 |            |
| Chloroform                  | ug/L  | <1.0         | 1.0             | 1.0  | 04/25/20 00:03 |            |
| Chloromethane               | ug/L  | <5.0         | 5.0             | 5.0  | 04/25/20 00:03 |            |
| cis-1,2-Dichloroethene      | ug/L  | <1.0         | 1.0             | 1.0  | 04/25/20 00:03 |            |
| cis-1,3-Dichloropropene     | ug/L  | <100         | 100             | 100  | 04/25/20 00:03 |            |
| Cyclohexane                 | ug/L  | <10.0        | 10.0            | 10.0 | 04/25/20 00:03 | N2         |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50255371

METHOD BLANK: 2577120 Matrix: Water  
Associated Lab Samples: 50255371001, 50255371002, 50255371003, 50255371004, 50255371005

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| Dibromochloromethane        | ug/L  | <5.0         | 5.0             | 5.0  | 04/25/20 00:03 |            |
| Dibromomethane              | ug/L  | <5.0         | 5.0             | 5.0  | 04/25/20 00:03 |            |
| Dichlorodifluoromethane     | ug/L  | <5.0         | 5.0             | 5.0  | 04/25/20 00:03 |            |
| Diethyl ether (Ethyl ether) | ug/L  | <5.0         | 5.0             | 5.0  | 04/25/20 00:03 |            |
| Diisopropyl ether           | ug/L  | <5.0         | 5.0             | 5.0  | 04/25/20 00:03 | N2         |
| Ethyl-tert-butyl ether      | ug/L  | <5.0         | 5.0             | 5.0  | 04/25/20 00:03 | N2         |
| Ethylbenzene                | ug/L  | <1.0         | 1.0             | 1.0  | 04/25/20 00:03 |            |
| Hexachloroethane            | ug/L  | <5.0         | 5.0             | 5.0  | 04/25/20 00:03 | N2         |
| Iodomethane                 | ug/L  | <0.45        | 5.0             | 0.45 | 04/25/20 00:03 |            |
| Isopropylbenzene (Cumene)   | ug/L  | <5.0         | 5.0             | 5.0  | 04/25/20 00:03 |            |
| m&p-Xylene                  | ug/L  | <0.16        | 2.0             | 0.16 | 04/25/20 00:03 |            |
| Methyl-tert-butyl ether     | ug/L  | <5.0         | 5.0             | 5.0  | 04/25/20 00:03 |            |
| Methylene Chloride          | ug/L  | <5.0         | 5.0             | 5.0  | 04/25/20 00:03 |            |
| n-Butylbenzene              | ug/L  | <1.0         | 1.0             | 1.0  | 04/25/20 00:03 |            |
| n-Propylbenzene             | ug/L  | <100         | 100             | 100  | 04/25/20 00:03 |            |
| Naphthalene                 | ug/L  | <5.0         | 5.0             | 5.0  | 04/25/20 00:03 |            |
| o-Xylene                    | ug/L  | <0.39        | 1.0             | 0.39 | 04/25/20 00:03 |            |
| p-Isopropyltoluene          | ug/L  | <0.28        | 1.0             | 0.28 | 04/25/20 00:03 |            |
| sec-Butylbenzene            | ug/L  | <1.0         | 1.0             | 1.0  | 04/25/20 00:03 |            |
| Styrene                     | ug/L  | <1.0         | 1.0             | 1.0  | 04/25/20 00:03 |            |
| tert-Amylmethyl ether       | ug/L  | <5.0         | 5.0             | 5.0  | 04/25/20 00:03 | N2         |
| tert-Butyl Alcohol          | ug/L  | <50.0        | 50.0            | 50.0 | 04/25/20 00:03 |            |
| tert-Butylbenzene           | ug/L  | <1.0         | 1.0             | 1.0  | 04/25/20 00:03 |            |
| Tetrachloroethane           | ug/L  | <1.0         | 1.0             | 1.0  | 04/25/20 00:03 |            |
| Tetrahydrofuran             | ug/L  | <90.0        | 90.0            | 90.0 | 04/25/20 00:03 | N2         |
| Toluene                     | ug/L  | <1.0         | 1.0             | 1.0  | 04/25/20 00:03 |            |
| trans-1,2-Dichloroethene    | ug/L  | <1.0         | 1.0             | 1.0  | 04/25/20 00:03 |            |
| trans-1,3-Dichloropropene   | ug/L  | <100         | 100             | 100  | 04/25/20 00:03 |            |
| trans-1,4-Dichloro-2-butene | ug/L  | <0.82        | 100             | 0.82 | 04/25/20 00:03 |            |
| Trichloroethene             | ug/L  | <1.0         | 1.0             | 1.0  | 04/25/20 00:03 |            |
| Trichlorofluoromethane      | ug/L  | <1.0         | 2.0             | 1.0  | 04/25/20 00:03 |            |
| Vinyl chloride              | ug/L  | <1.0         | 1.0             | 1.0  | 04/25/20 00:03 |            |
| 4-Bromofluorobenzene (S)    | %     | 98           | 85-116          |      | 04/25/20 00:03 |            |
| Dibromofluoromethane (S)    | %     | 100          | 75-120          |      | 04/25/20 00:03 |            |
| Toluene-d8 (S)              | %     | 99           | 83-111          |      | 04/25/20 00:03 |            |

LABORATORY CONTROL SAMPLE: 2577121

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/L  | 50          | 46.8       | 94        | 78-120       |            |
| 1,1,1-Trichloroethane     | ug/L  | 50          | 54.0       | 108       | 78-130       |            |
| 1,1,2,2-Tetrachloroethane | ug/L  | 50          | 44.6       | 89        | 64-126       |            |
| 1,1,2-Trichloroethane     | ug/L  | 50          | 45.6       | 91        | 73-125       |            |
| 1,1-Dichloroethane        | ug/L  | 50          | 50.5       | 101       | 77-123       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale

Pace Project No.: 50255371

LABORATORY CONTROL SAMPLE: 2577121

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1-Dichloroethene          | ug/L  | 50          | 49.8       | 100       | 79-128       |            |
| 1,2,3-Trichlorobenzene      | ug/L  | 50          | 47.9       | 96        | 75-126       |            |
| 1,2,3-Trichloropropane      | ug/L  | 50          | 46.2       | 92        | 71-131       |            |
| 1,2,4-Trichlorobenzene      | ug/L  | 50          | 49.1       | 98        | 76-130       |            |
| 1,2,4-Trimethylbenzene      | ug/L  | 50          | 50.3       | 101       | 76-119       |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | 50          | 51.1       | 102       | 71-133       |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | 50          | 46.2       | 92        | 76-122       |            |
| 1,2-Dichlorobenzene         | ug/L  | 50          | 43.9       | 88        | 79-113       |            |
| 1,2-Dichloroethane          | ug/L  | 50          | 43.5       | 87        | 66-127       |            |
| 1,2-Dichloropropane         | ug/L  | 50          | 47.7       | 95        | 75-127       |            |
| 1,3,5-Trimethylbenzene      | ug/L  | 50          | 50.9       | 102       | 78-116       |            |
| 1,3-Dichlorobenzene         | ug/L  | 50          | 45.7       | 91        | 79-120       |            |
| 1,4-Dichlorobenzene         | ug/L  | 50          | 43.8       | 88        | 77-117       |            |
| 2-Butanone (MEK)            | ug/L  | 250         | 214        | 86        | 61-138       |            |
| 2-Hexanone                  | ug/L  | 250         | 238        | 95        | 58-138       |            |
| 2-Methylnaphthalene         | ug/L  | 50          | 45.8       | 92        | 60-136       | N2         |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | 250         | 230        | 92        | 60-131       |            |
| Acetone                     | ug/L  | 250         | 223        | 89        | 57-126       |            |
| Acrylonitrile               | ug/L  | 200         | 169        | 84        | 65-127       |            |
| Benzene                     | ug/L  | 50          | 46.2       | 92        | 75-118       |            |
| Bromobenzene                | ug/L  | 50          | 44.6       | 89        | 68-127       |            |
| Bromochloromethane          | ug/L  | 50          | 46.0       | 92        | 66-126       |            |
| Bromodichloromethane        | ug/L  | 50          | 47.6       | 95        | 75-120       |            |
| Bromoform                   | ug/L  | 50          | 46.5       | 93        | 61-119       |            |
| Bromomethane                | ug/L  | 50          | 40.5       | 81        | 12-184       |            |
| Carbon disulfide            | ug/L  | 50          | 48.0       | 96        | 71-123       |            |
| Carbon tetrachloride        | ug/L  | 50          | 52.6       | 105       | 73-125       |            |
| Chlorobenzene               | ug/L  | 50          | 45.2       | 90        | 80-115       |            |
| Chloroethane                | ug/L  | 50          | 52.6       | 105       | 46-133       |            |
| Chloroform                  | ug/L  | 50          | 47.9       | 96        | 75-117       |            |
| Chloromethane               | ug/L  | 50          | 47.1       | 94        | 33-124       |            |
| cis-1,2-Dichloroethene      | ug/L  | 50          | 48.7       | 97        | 76-120       |            |
| cis-1,3-Dichloropropene     | ug/L  | 50          | <100       | 97        | 73-130       |            |
| Cyclohexane                 | ug/L  | 50          | 55.3       | 111       | 58-122       | N2         |
| Dibromochloromethane        | ug/L  | 50          | 46.7       | 93        | 69-124       |            |
| Dibromomethane              | ug/L  | 50          | 47.1       | 94        | 76-124       |            |
| Dichlorodifluoromethane     | ug/L  | 50          | 41.5       | 83        | 36-145       |            |
| Diethyl ether (Ethyl ether) | ug/L  | 50          | 45.7       | 91        | 70-130       |            |
| Ethylbenzene                | ug/L  | 50          | 47.8       | 96        | 78-120       |            |
| Iodomethane                 | ug/L  | 100         | 133        | 133       | 10-184       |            |
| Isopropylbenzene (Cumene)   | ug/L  | 50          | 50.2       | 100       | 82-122       |            |
| m&p-Xylene                  | ug/L  | 100         | 94.1       | 94        | 79-118       |            |
| Methyl-tert-butyl ether     | ug/L  | 50          | 48.0       | 96        | 79-125       |            |
| Methylene Chloride          | ug/L  | 50          | 47.3       | 95        | 68-126       |            |
| n-Butylbenzene              | ug/L  | 50          | 50.5       | 101       | 73-123       |            |
| n-Propylbenzene             | ug/L  | 50          | <100       | 101       | 75-119       |            |
| Naphthalene                 | ug/L  | 50          | 47.2       | 94        | 70-130       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50255371

LABORATORY CONTROL SAMPLE: 2577121

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| o-Xylene                    | ug/L  | 50          | 48.6       | 97        | 78-121       |            |
| p-Isopropyltoluene          | ug/L  | 50          | 50.8       | 102       | 82-119       |            |
| sec-Butylbenzene            | ug/L  | 50          | 51.3       | 103       | 79-119       |            |
| Styrene                     | ug/L  | 50          | 48.2       | 96        | 80-121       |            |
| tert-Butyl Alcohol          | ug/L  | 100         | 110        | 110       | 10-200       |            |
| tert-Butylbenzene           | ug/L  | 50          | 39.2       | 78        | 58-106       |            |
| Tetrachloroethene           | ug/L  | 50          | 47.5       | 95        | 70-123       |            |
| Tetrahydrofuran             | ug/L  | 50          | <90.0      | 88        | 50-150       | N2         |
| Toluene                     | ug/L  | 50          | 47.0       | 94        | 72-114       |            |
| trans-1,2-Dichloroethene    | ug/L  | 50          | 50.3       | 101       | 79-126       |            |
| trans-1,3-Dichloropropene   | ug/L  | 50          | <100       | 95        | 68-122       |            |
| trans-1,4-Dichloro-2-butene | ug/L  | 200         | 186        | 93        | 34-130       |            |
| Trichloroethene             | ug/L  | 50          | 47.4       | 95        | 78-120       |            |
| Trichlorofluoromethane      | ug/L  | 50          | 53.0       | 106       | 57-156       |            |
| Vinyl chloride              | ug/L  | 50          | 48.4       | 97        | 55-122       |            |
| 4-Bromofluorobenzene (S)    | %     |             |            | 104       | 85-116       |            |
| Dibromofluoromethane (S)    | %     |             |            | 102       | 75-120       |            |
| Toluene-d8 (S)              | %     |             |            | 101       | 83-111       |            |

MATRIX SPIKE SAMPLE: 2577123

| Parameter                   | Units | 50255312001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/L  | ND                 | 50          | 47.9      | 96       | 51-135       |            |
| 1,1,1-Trichloroethane       | ug/L  | ND                 | 50          | 56.7      | 113      | 56-144       |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | ND                 | 50          | 42.8      | 86       | 47-137       |            |
| 1,1,2-Trichloroethane       | ug/L  | ND                 | 50          | 44.9      | 90       | 55-136       |            |
| 1,1-Dichloroethane          | ug/L  | 2.8                | 50          | 55.0      | 104      | 53-140       |            |
| 1,1-Dichloroethene          | ug/L  | ND                 | 50          | 52.8      | 106      | 60-140       |            |
| 1,2,3-Trichlorobenzene      | ug/L  | ND                 | 50          | 46.0      | 92       | 35-140       |            |
| 1,2,3-Trichloropropane      | ug/L  | ND                 | 50          | 43.3      | 87       | 54-142       |            |
| 1,2,4-Trichlorobenzene      | ug/L  | ND                 | 50          | 46.8      | 94       | 31-143       |            |
| 1,2,4-Trimethylbenzene      | ug/L  | ND                 | 50          | 50.5      | 101      | 13-152       |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | ND                 | 50          | 48.4      | 97       | 29-145       |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                 | 50          | 44.5      | 89       | 56-136       |            |
| 1,2-Dichlorobenzene         | ug/L  | ND                 | 50          | 44.0      | 88       | 38-133       |            |
| 1,2-Dichloroethane          | ug/L  | ND                 | 50          | 44.6      | 89       | 46-145       |            |
| 1,2-Dichloropropane         | ug/L  | ND                 | 50          | 49.5      | 99       | 55-141       |            |
| 1,3,5-Trimethylbenzene      | ug/L  | ND                 | 50          | 50.9      | 102      | 23-145       |            |
| 1,3-Dichlorobenzene         | ug/L  | ND                 | 50          | 44.7      | 89       | 31-144       |            |
| 1,4-Dichlorobenzene         | ug/L  | ND                 | 50          | 43.4      | 87       | 31-138       |            |
| 2-Butanone (MEK)            | ug/L  | ND                 | 250         | 212       | 85       | 42-150       |            |
| 2-Hexanone                  | ug/L  | ND                 | 250         | 226       | 90       | 43-146       |            |
| 2-Methylnaphthalene         | ug/L  | ND                 | 50          | 43.9      | 88       | 32-142       | N2         |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | ND                 | 250         | 227       | 91       | 42-142       |            |
| Acetone                     | ug/L  | ND                 | 250         | 230       | 92       | 36-142       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale

Pace Project No.: 50255371

| MATRIX SPIKE SAMPLE: 2577123 |       | 50255312001 | Spike | MS     | MS    | % Rec  |            |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter                    | Units | Result      | Conc. | Result | % Rec | Limits | Qualifiers |
| Acrylonitrile                | ug/L  | ND          | 200   | 165    | 82    | 48-137 |            |
| Benzene                      | ug/L  | ND          | 50    | 47.7   | 95    | 49-135 |            |
| Bromobenzene                 | ug/L  | ND          | 50    | 45.8   | 92    | 37-144 |            |
| Bromochloromethane           | ug/L  | ND          | 50    | 49.3   | 99    | 47-140 |            |
| Bromodichloromethane         | ug/L  | ND          | 50    | 49.5   | 99    | 55-133 |            |
| Bromoform                    | ug/L  | ND          | 50    | 43.4   | 87    | 45-125 |            |
| Bromomethane                 | ug/L  | ND          | 50    | 38.5   | 77    | 10-191 |            |
| Carbon disulfide             | ug/L  | ND          | 50    | 50.6   | 101   | 49-136 |            |
| Carbon tetrachloride         | ug/L  | ND          | 50    | 54.6   | 109   | 55-134 |            |
| Chlorobenzene                | ug/L  | ND          | 50    | 46.2   | 92    | 42-135 |            |
| Chloroethane                 | ug/L  | ND          | 50    | 54.0   | 108   | 25-154 |            |
| Chloroform                   | ug/L  | ND          | 50    | 49.3   | 99    | 57-130 |            |
| Chloromethane                | ug/L  | ND          | 50    | 52.4   | 105   | 17-129 |            |
| cis-1,2-Dichloroethene       | ug/L  | 1.9         | 50    | 51.6   | 99    | 53-134 |            |
| cis-1,3-Dichloropropene      | ug/L  | ND          | 50    | <100   | 92    | 50-136 |            |
| Cyclohexane                  | ug/L  | ND          | 50    | 58.3   | 117   | 33-130 | N2         |
| Dibromochloromethane         | ug/L  | ND          | 50    | 46.7   | 93    | 53-133 |            |
| Dibromomethane               | ug/L  | ND          | 50    | 49.6   | 99    | 57-139 |            |
| Dichlorodifluoromethane      | ug/L  | ND          | 50    | 43.5   | 87    | 21-154 |            |
| Diethyl ether (Ethyl ether)  | ug/L  | 1.9J        | 50    | 47.9   | 92    | 70-130 |            |
| Ethylbenzene                 | ug/L  | ND          | 50    | 49.1   | 98    | 28-147 |            |
| Iodomethane                  | ug/L  | ND          | 100   | 115    | 115   | 10-186 |            |
| Isopropylbenzene (Cumene)    | ug/L  | ND          | 50    | 50.8   | 102   | 27-151 |            |
| m&p-Xylene                   | ug/L  | ND          | 100   | 95.6   | 96    | 28-145 |            |
| Methyl-tert-butyl ether      | ug/L  | ND          | 50    | 47.9   | 95    | 60-142 |            |
| Methylene Chloride           | ug/L  | ND          | 50    | 50.1   | 100   | 46-138 |            |
| n-Butylbenzene               | ug/L  | ND          | 50    | 50.3   | 101   | 10-153 |            |
| n-Propylbenzene              | ug/L  | ND          | 50    | <100   | 101   | 20-149 |            |
| Naphthalene                  | ug/L  | ND          | 50    | 44.6   | 89    | 41-139 |            |
| o-Xylene                     | ug/L  | ND          | 50    | 49.0   | 98    | 31-145 |            |
| p-Isopropyltoluene           | ug/L  | ND          | 50    | 51.2   | 102   | 15-155 |            |
| sec-Butylbenzene             | ug/L  | ND          | 50    | 52.1   | 104   | 17-153 |            |
| Styrene                      | ug/L  | ND          | 50    | 48.2   | 96    | 42-139 |            |
| tert-Butyl Alcohol           | ug/L  | ND          | 100   | 86.8   | 87    | 10-170 |            |
| tert-Butylbenzene            | ug/L  | ND          | 50    | 39.6   | 79    | 18-123 |            |
| Tetrachloroethene            | ug/L  | ND          | 50    | 47.9   | 95    | 32-140 |            |
| Tetrahydrofuran              | ug/L  | ND          | 50    | <90.0  | 89    | 50-150 | N2         |
| Toluene                      | ug/L  | 0.082J      | 50    | 47.7   | 95    | 42-131 |            |
| trans-1,2-Dichloroethene     | ug/L  | ND          | 50    | 52.2   | 104   | 57-138 |            |
| trans-1,3-Dichloropropene    | ug/L  | ND          | 50    | <100   | 86    | 47-128 |            |
| trans-1,4-Dichloro-2-butene  | ug/L  | ND          | 200   | 166    | 83    | 10-135 |            |
| Trichloroethene              | ug/L  | 0.85J       | 50    | 52.0   | 102   | 47-137 |            |
| Trichlorofluoromethane       | ug/L  | ND          | 50    | 57.0   | 114   | 42-163 |            |
| Vinyl chloride               | ug/L  | ND          | 50    | 51.4   | 102   | 36-136 |            |
| 4-Bromofluorobenzene (S)     | %     |             |       |        | 104   | 85-116 |            |
| Dibromofluoromethane (S)     | %     |             |       |        | 105   | 75-120 |            |
| Toluene-d8 (S)               | %     |             |       |        | 102   | 83-111 |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50255371

SAMPLE DUPLICATE: 2577122

| Parameter                   | Units | 50255312002<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|-----------------------------|-------|-----------------------|---------------|-----|------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,1,1-Trichloroethane       | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,1,2-Trichloroethane       | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,1-Dichloroethane          | ug/L  | 0.54J                 | <1.0          |     | 20         |            |
| 1,1-Dichloroethene          | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,2,3-Trichlorobenzene      | ug/L  | ND                    | <5.0          |     | 20         |            |
| 1,2,3-Trichloropropane      | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,2,3-Trimethylbenzene      | ug/L  | ND                    | <5.0          |     | 20         | N2         |
| 1,2,4-Trichlorobenzene      | ug/L  | ND                    | <5.0          |     | 20         |            |
| 1,2,4-Trimethylbenzene      | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | ND                    | <0.25         |     | 20         |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                    | <0.23         |     | 20         |            |
| 1,2-Dichlorobenzene         | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,2-Dichloroethane          | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,2-Dichloropropane         | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,3,5-Trimethylbenzene      | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,3-Dichlorobenzene         | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,4-Dichlorobenzene         | ug/L  | ND                    | <1.0          |     | 20         |            |
| 2-Butanone (MEK)            | ug/L  | ND                    | <25.0         |     | 20         |            |
| 2-Hexanone                  | ug/L  | ND                    | <50.0         |     | 20         |            |
| 2-Methylnaphthalene         | ug/L  | ND                    | <5.0          |     | 20         | N2         |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | ND                    | <50.0         |     | 20         |            |
| Acetone                     | ug/L  | ND                    | <50.0         |     | 20         |            |
| Acrylonitrile               | ug/L  | ND                    | <2.0          |     | 20         |            |
| Benzene                     | ug/L  | ND                    | <1.0          |     | 20         |            |
| Bromobenzene                | ug/L  | ND                    | <1.0          |     | 20         |            |
| Bromochloromethane          | ug/L  | ND                    | <0.59         |     | 20         |            |
| Bromodichloromethane        | ug/L  | ND                    | <1.0          |     | 20         |            |
| Bromoform                   | ug/L  | ND                    | <1.0          |     | 20         |            |
| Bromomethane                | ug/L  | ND                    | <5.0          |     | 20         |            |
| Carbon disulfide            | ug/L  | ND                    | <5.0          |     | 20         |            |
| Carbon tetrachloride        | ug/L  | ND                    | <1.0          |     | 20         |            |
| Chlorobenzene               | ug/L  | ND                    | <1.0          |     | 20         |            |
| Chloroethane                | ug/L  | ND                    | <5.0          |     | 20         |            |
| Chloroform                  | ug/L  | ND                    | <1.0          |     | 20         |            |
| Chloromethane               | ug/L  | ND                    | <5.0          |     | 20         |            |
| cis-1,2-Dichloroethene      | ug/L  | ND                    | <1.0          |     | 20         |            |
| cis-1,3-Dichloropropene     | ug/L  | ND                    | <100          |     | 20         |            |
| Cyclohexane                 | ug/L  | ND                    | <10.0         |     | 20         | N2         |
| Dibromochloromethane        | ug/L  | ND                    | <5.0          |     | 20         |            |
| Dibromomethane              | ug/L  | ND                    | <5.0          |     | 20         |            |
| Dichlorodifluoromethane     | ug/L  | 0.74J                 | <5.0          |     | 20         |            |
| Diethyl ether (Ethyl ether) | ug/L  | 4.8J                  | <5.0          |     | 20         |            |
| Diisopropyl ether           | ug/L  | ND                    | <5.0          |     | 20         | N2         |
| Ethyl-tert-butyl ether      | ug/L  | ND                    | <5.0          |     | 20         | N2         |
| Ethylbenzene                | ug/L  | ND                    | <1.0          |     | 20         |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale  
Pace Project No.: 50255371

SAMPLE DUPLICATE: 2577122

| Parameter                   | Units | 50255312002<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|-----------------------------|-------|-----------------------|---------------|-----|------------|------------|
| Hexachloroethane            | ug/L  | ND                    | <5.0          |     | 20         | N2         |
| Iodomethane                 | ug/L  | ND                    | <0.45         |     | 20         |            |
| Isopropylbenzene (Cumene)   | ug/L  | ND                    | <5.0          |     | 20         |            |
| m&p-Xylene                  | ug/L  | ND                    | <0.16         |     | 20         |            |
| Methyl-tert-butyl ether     | ug/L  | ND                    | <5.0          |     | 20         |            |
| Methylene Chloride          | ug/L  | ND                    | <5.0          |     | 20         |            |
| n-Butylbenzene              | ug/L  | ND                    | <1.0          |     | 20         |            |
| n-Propylbenzene             | ug/L  | ND                    | <100          |     | 20         |            |
| Naphthalene                 | ug/L  | ND                    | <5.0          |     | 20         |            |
| o-Xylene                    | ug/L  | ND                    | <0.39         |     | 20         |            |
| p-Isopropyltoluene          | ug/L  | ND                    | <0.28         |     | 20         |            |
| sec-Butylbenzene            | ug/L  | ND                    | <1.0          |     | 20         |            |
| Styrene                     | ug/L  | ND                    | <1.0          |     | 20         |            |
| tert-Amylmethyl ether       | ug/L  | ND                    | <5.0          |     | 20         | N2         |
| tert-Butyl Alcohol          | ug/L  | ND                    | <50.0         |     | 20         |            |
| tert-Butylbenzene           | ug/L  | ND                    | <1.0          |     | 20         |            |
| Tetrachloroethene           | ug/L  | ND                    | <1.0          |     | 20         |            |
| Tetrahydrofuran             | ug/L  | ND                    | <90.0         |     | 20         | N2         |
| Toluene                     | ug/L  | 0.28J                 | <1.0          |     | 20         |            |
| trans-1,2-Dichloroethene    | ug/L  | ND                    | <1.0          |     | 20         |            |
| trans-1,3-Dichloropropene   | ug/L  | ND                    | <100          |     | 20         |            |
| trans-1,4-Dichloro-2-butene | ug/L  | ND                    | <0.82         |     | 20         |            |
| Trichloroethene             | ug/L  | ND                    | <1.0          |     | 20         |            |
| Trichlorofluoromethane      | ug/L  | ND                    | <1.0          |     | 20         |            |
| Vinyl chloride              | ug/L  | 1.5                   | 1.4           | 9   | 20         |            |
| 4-Bromofluorobenzene (S)    | %     | 97                    | 100           |     |            |            |
| Dibromofluoromethane (S)    | %     | 103                   | 102           |     |            |            |
| Toluene-d8 (S)              | %     | 101                   | 99            |     |            |            |

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## QUALIFIERS

Project: 8 Mile Ferndale  
Pace Project No.: 50255371

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 8 Mile Ferndale  
Pace Project No.: 50255371

| Lab ID      | Sample ID  | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|------------|-----------------|----------|-------------------|------------------|
| 50255371001 | MW-119     | EPA 5030B/8260  | 558827   |                   |                  |
| 50255371002 | MW-120     | EPA 5030B/8260  | 558827   |                   |                  |
| 50255371003 | MW-121     | EPA 5030B/8260  | 558827   |                   |                  |
| 50255371004 | Dup-1      | EPA 5030B/8260  | 558827   |                   |                  |
| 50255371005 | Trip Blank | EPA 5030B/8260  | 558827   |                   |                  |

**REPORT OF LABORATORY ANALYSIS**

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## SAMPLE CONDITION UPON RECEIPT FORM

**Project #:** 50255371

**Date/Time and Initials of person examining contents:** PTH 4-24-20 10:00

**Courier:**  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other \_\_\_\_\_

**Tracking #:** 1768 4586 9980

**Custody Seal on Cooler/Box Present:**  Yes  No **Seals Intact:**  Yes  No

**Packing Material:**  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_

**Thermometer:** 1 2 3 4 5 6 A B C D E F **Ice Type:**  Wet  Blue  None | **Samples collected today and on ice:**  Yes  No  N/A

**Cooler Temperature:** 1.8 / 1.7 **Ice Visible in Sample Containers?:**  Yes  No  N/A

**(Initial/Corrected) Temp should be above freezing to 6°C** **If temp. is Over 6°C or under 0°C, was the PM Notified?:**  Yes  No  N/A

**All discrepancies will be written out in the comments section below.**

|   | Yes | No  |   | Yes     | No     | N/A |
|---|-----|-----|---|---------|--------|-----|
| <b>Are samples from West Virginia?</b><br>Document any containers out of temp.                                    |     | X   | All containers needing acid/base pres. Have been checked?: <b>exceptions: VOA, coliform, LLHg, O&amp;G, and any container with a septum cap or preserved with HCl.</b>      |         |        |     |
| <b>USDA Regulated Soils?</b> (ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico) |     | Y   | All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.<br>Circle: <u>HNO3</u> H2SO4 NaOH NaOH/ZnAc | X       |        |     |
| Chain of Custody Present:   | X   |     | Dissolved Metals field filtered?:   |         |        | X   |
| Chain of Custody Filled Out:  | X   |     | Headspace Wisconsin Sulfide   |         |        | X   |
| <b>Short Hold Time Analysis (&lt;72hr)?:</b><br><b>Analysis:</b>  |     | X   | Residual Chlorine Check (SVOC 625 Pest/PCB 608)   | Present | Absent | N/A |
| <b>Time 5035A TC placed in Freezer or Short Holds To Lab:</b>   |     |     | Residual Chlorine Check (Total/Amenable/Free Cyanide)   |         |        | Y   |
| <b>Rush TAT Requested:</b> <u>3 Day</u>   | X   |     | Headspace in VOA Vials (>6mm):  |         | X      |     |
| Containers Intact?:   | X   |     | Trip Blank Present?:  | X       |        |     |
| Sample Labels (IDs/Dates/Times) Match COC?:<br>Except TCs, which only require sample ID                           | Y   |     | Trip Blank Custody Seals?:  |         | X      |     |
| Extra labels on Terracore Vials (soils only)?   |     | N/A |   |         |        |     |

**Comments:**  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



July 08, 2020

Ryann Scott  
ATC Group Services - Novi  
46555 Humboldt Drive  
Suite 100  
Novi, MI 48377

RE: Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

Dear Ryann Scott:

Enclosed are the analytical results for sample(s) received by the laboratory on June 26, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Brian Hall  
brian.hall@pacelabs.com  
(616)975-4500  
Project Manager

Enclosures

cc: AP c/o Abigail Jardine, ATC Group Services  
Michael Hauswirth, ATC Group Services  
Joshua Schuyler, ATC Group Services - Novi



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260974

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### **Pace Analytical Services Indianapolis**

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

West Virginia Certification #: 330

Wisconsin Laboratory #: 999788130

USDA Soil Permit #: P330-19-00257

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### **Pace Analytical Services Long Island**

575 Broad Hollow Rd, Melville, NY 11747

New York Certification #: 10478 Primary Accrediting Body

New Jersey Certification #: NY158

Pennsylvania Certification #: 68-00350

Connecticut Certification #: PH-0435

Maryland Certification #: 208

Rhode Island Certification #: LAO00340

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

| Lab ID      | Sample ID   | Matrix | Date Collected | Date Received  |
|-------------|-------------|--------|----------------|----------------|
| 50260974001 | MW-12       | Water  | 06/23/20 16:30 | 06/26/20 09:15 |
| 50260974002 | MW-123      | Water  | 06/23/20 15:50 | 06/26/20 09:15 |
| 50260974003 | MW-124      | Water  | 06/23/20 14:10 | 06/26/20 09:15 |
| 50260974004 | MW-125      | Water  | 06/23/20 12:55 | 06/26/20 09:15 |
| 50260974005 | MW-126      | Water  | 06/23/20 12:10 | 06/26/20 09:15 |
| 50260974006 | MW-130      | Water  | 06/23/20 15:10 | 06/26/20 09:15 |
| 50260974007 | MW-122      | Water  | 06/24/20 13:45 | 06/26/20 09:15 |
| 50260974008 | MW-127      | Water  | 06/24/20 12:50 | 06/26/20 09:15 |
| 50260974009 | MW-128      | Water  | 06/24/20 11:10 | 06/26/20 09:15 |
| 50260974010 | MW-129      | Water  | 06/24/20 12:10 | 06/26/20 09:15 |
| 50260974011 | MW-131      | Water  | 06/24/20 14:56 | 06/26/20 09:15 |
| 50260974012 | DUP-1       | Water  | 06/23/20 00:00 | 06/26/20 09:15 |
| 50260974013 | DUP-3       | Water  | 06/24/20 00:00 | 06/26/20 09:15 |
| 50260974014 | Trip Blank  | Water  | 06/23/20 08:00 | 06/26/20 09:15 |
| 50260974015 | Field Blank | Water  | 06/23/20 11:00 | 06/26/20 09:15 |
| 50260974016 | Trip Blank  | Water  | 06/24/20 08:00 | 06/26/20 09:15 |
| 50260974017 | Field Blank | Water  | 06/24/20 11:00 | 06/26/20 09:15 |

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

| Lab ID      | Sample ID | Method                  | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|-------------------------|----------|-------------------|------------|
| 50260974001 | MW-12     | EPA 6010                | RAM      | 16                | PASI-I     |
|             |           | EPA 6020                | DMT      | 10                | PASI-I     |
|             |           | EPA 7470                | LBT      | 1                 | PASI-I     |
|             |           | EPA 8270 by SIM         | GRM      | 19                | PASI-I     |
|             |           | EPA 8270                | GRM      | 48                | PASI-I     |
| 50260974002 | MW-123    | EPA 5030B/8260          | JPV      | 75                | PASI-I     |
|             |           | EPA 8082                | KAV      | 10                | PASI-I     |
|             |           | EPA 6010                | RAM      | 16                | PASI-I     |
|             |           | EPA 6020                | DMT      | 10                | PASI-I     |
|             |           | EPA 7470                | LBT      | 1                 | PASI-I     |
| 50260974003 | MW-124    | EPA 8270 by SIM         | GRM      | 19                | PASI-I     |
|             |           | EPA 8270                | GRM      | 48                | PASI-I     |
|             |           | EPA 5030B/8260          | JPV      | 75                | PASI-I     |
|             |           | EPA 6010                | RAM      | 16                | PASI-I     |
|             |           | EPA 6020                | DMT      | 10                | PASI-I     |
| 50260974004 | MW-125    | EPA 7470                | LBT      | 1                 | PASI-I     |
|             |           | EPA 8270 by SIM         | GRM      | 19                | PASI-I     |
|             |           | EPA 8270                | GRM      | 48                | PASI-I     |
|             |           | EPA 5030B/8260          | JPV      | 75                | PASI-I     |
|             |           | EPA 8015 Alcohol-Glycol | CPH      | 3                 | PASI-I     |
| 50260974005 | MW-126    | EPA 8082                | KAV      | 10                | PASI-I     |
|             |           | EPA 6010                | RAM      | 16                | PASI-I     |
|             |           | EPA 6020                | DMT      | 10                | PASI-I     |
|             |           | EPA 7470                | LBT      | 1                 | PASI-I     |
|             |           | EPA 8270 by SIM         | GRM      | 19                | PASI-I     |
| 50260974006 | MW-130    | EPA 8270                | GRM      | 48                | PASI-I     |
|             |           | EPA 8260C SIM/5030C     | BBL      | 3                 | PASI-L     |
|             |           | EPA 5030B/8260          | JPV      | 75                | PASI-I     |
|             |           | EPA 8015 Alcohol-Glycol | CPH      | 3                 | PASI-I     |
|             |           | EPA 8082                | KAV      | 10                | PASI-I     |
|             |           | EPA 6010                | RAM      | 16                | PASI-I     |

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### SAMPLE ANALYTE COUNT

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

| Lab ID          | Sample ID | Method                  | Analysts | Analytes Reported | Laboratory |
|-----------------|-----------|-------------------------|----------|-------------------|------------|
| 50260974007     | MW-122    | EPA 6020                | DMT      | 10                | PASI-I     |
|                 |           | EPA 7470                | LBT      | 1                 | PASI-I     |
|                 |           | EPA 8270 by SIM         | GRM      | 19                | PASI-I     |
|                 |           | EPA 8270                | GRM      | 48                | PASI-I     |
|                 |           | EPA 5030B/8260          | JPV      | 75                | PASI-I     |
|                 |           | EPA 6010                | RAM      | 16                | PASI-I     |
|                 |           | EPA 6020                | DMT      | 10                | PASI-I     |
|                 |           | EPA 7470                | LBT      | 1                 | PASI-I     |
|                 |           | EPA 8270 by SIM         | GRM      | 19                | PASI-I     |
|                 |           | EPA 8270                | GRM      | 48                | PASI-I     |
| 50260974008     | MW-127    | EPA 8260C SIM/5030C     | BBL      | 3                 | PASI-L     |
|                 |           | EPA 5030B/8260          | JPV      | 75                | PASI-I     |
|                 |           | EPA 9012                | NMW      | 1                 | PASI-I     |
|                 |           | EPA 8015 Alcohol-Glycol | CPH      | 3                 | PASI-I     |
|                 |           | EPA 8082                | KAV      | 10                | PASI-I     |
|                 |           | EPA 6010                | RAM      | 16                | PASI-I     |
|                 |           | EPA 6020                | DMT      | 10                | PASI-I     |
|                 |           | EPA 7470                | LBT      | 1                 | PASI-I     |
|                 |           | EPA 8270 by SIM         | GRM      | 19                | PASI-I     |
|                 |           | EPA 8270                | GRM      | 48                | PASI-I     |
| 50260974009     | MW-128    | EPA 8260C SIM/5030C     | BBL      | 3                 | PASI-L     |
|                 |           | EPA 5030B/8260          | JPV      | 75                | PASI-I     |
|                 |           | EPA 9012                | NMW      | 1                 | PASI-I     |
|                 |           | EPA 8015 Alcohol-Glycol | CPH      | 3                 | PASI-I     |
|                 |           | EPA 8082                | KAV      | 10                | PASI-I     |
|                 |           | EPA 6010                | RAM      | 16                | PASI-I     |
|                 |           | EPA 6020                | DMT      | 10                | PASI-I     |
|                 |           | EPA 7470                | LBT      | 1                 | PASI-I     |
|                 |           | EPA 8270 by SIM         | GRM      | 19                | PASI-I     |
|                 |           | EPA 8270                | GRM      | 48                | PASI-I     |
| 50260974010     | MW-129    | EPA 8260C SIM/5030C     | BBL      | 3                 | PASI-L     |
|                 |           | EPA 5030B/8260          | JPV      | 75                | PASI-I     |
|                 |           | EPA 9012                | NMW      | 1                 | PASI-I     |
|                 |           | EPA 6010                | RAM      | 16                | PASI-I     |
|                 |           | EPA 6020                | DMT      | 10                | PASI-I     |
|                 |           | EPA 7470                | LBT      | 1                 | PASI-I     |
| EPA 8270 by SIM | GRM       | 19                      | PASI-I   |                   |            |

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### SAMPLE ANALYTE COUNT

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

| Lab ID      | Sample ID   | Method              | Analysts | Analytes Reported | Laboratory |
|-------------|-------------|---------------------|----------|-------------------|------------|
| 50260974011 | MW-131      | EPA 8270            | GRM      | 48                | PASI-I     |
|             |             | EPA 8260C SIM/5030C | BBL      | 3                 | PASI-L     |
|             |             | EPA 5030B/8260      | JPV      | 75                | PASI-I     |
|             |             | EPA 9012            | NMW      | 1                 | PASI-I     |
|             |             | EPA 6010            | RAM      | 16                | PASI-I     |
|             |             | EPA 6020            | DMT      | 10                | PASI-I     |
|             |             | EPA 7470            | LBT      | 1                 | PASI-I     |
|             |             | EPA 8270 by SIM     | GRM      | 19                | PASI-I     |
|             |             | EPA 8270            | GRM      | 48                | PASI-I     |
|             |             | EPA 8260C SIM/5030C | BBL      | 3                 | PASI-L     |
| 50260974012 | DUP-1       | EPA 5030B/8260      | JPV      | 75                | PASI-I     |
|             |             | EPA 9012            | NMW      | 1                 | PASI-I     |
|             |             | EPA 6010            | RAM      | 16                | PASI-I     |
|             |             | EPA 6020            | DMT      | 10                | PASI-I     |
|             |             | EPA 7470            | LBT      | 1                 | PASI-I     |
|             |             | EPA 8270 by SIM     | GRM      | 19                | PASI-I     |
|             |             | EPA 8270            | GRM      | 48                | PASI-I     |
| 50260974013 | DUP-3       | EPA 5030B/8260      | JPV      | 75                | PASI-I     |
|             |             | EPA 6010            | RAM      | 16                | PASI-I     |
|             |             | EPA 6020            | DMT      | 10                | PASI-I     |
|             |             | EPA 7470            | LBT      | 1                 | PASI-I     |
|             |             | EPA 8270 by SIM     | GRM      | 19                | PASI-I     |
|             |             | EPA 8270            | GRM      | 48                | PASI-I     |
|             |             | EPA 8260C SIM/5030C | BBL      | 3                 | PASI-L     |
| 50260974014 | Trip Blank  | EPA 5030B/8260      | JPV      | 75                | PASI-I     |
|             |             | EPA 9012            | NMW      | 1                 | PASI-I     |
| 50260974015 | Field Blank | EPA 5030B/8260      | JPV      | 75                | PASI-I     |
| 50260974016 | Trip Blank  | EPA 5030B/8260      | JPV      | 75                | PASI-I     |
| 50260974017 | Field Blank | EPA 5030B/8260      | JPV      | 75                | PASI-I     |

PASI-I = Pace Analytical Services - Indianapolis

PASI-L = Pace Analytical Services - Melville

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-12**      **Lab ID: 50260974001**      Collected: 06/23/20 16:30      Received: 06/26/20 09:15      Matrix: Water

| Parameters  | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|------|------|----|----------------|----------------|-----------|------|
| <b>6010 MET ICP</b>   |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 6010    Preparation Method: EPA 3010<br>Pace Analytical Services - Indianapolis        |         |       |      |      |    |                |                |           |      |
| Arsenic   | <5.0    | ug/L  | 5.0  | 5.0  | 1  | 06/30/20 05:43 | 07/07/20 08:51 | 7440-38-2 |      |
| Barium  | 185     | ug/L  | 100  | 100  | 1  | 06/30/20 05:43 | 07/07/20 08:51 | 7440-39-3 |      |
| Boron   | <300    | ug/L  | 300  | 300  | 1  | 06/30/20 05:43 | 07/07/20 08:51 | 7440-42-8 |      |
| Calcium   | 89500   | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 08:51 | 7440-70-2 |      |
| Chromium  | <10.0   | ug/L  | 10.0 | 10.0 | 1  | 06/30/20 05:43 | 07/07/20 08:51 | 7440-47-3 |      |
| Cobalt  | <20.0   | ug/L  | 20.0 | 20.0 | 1  | 06/30/20 05:43 | 07/07/20 08:51 | 7440-48-4 |      |
| Copper  | <4.0    | ug/L  | 4.0  | 4.0  | 1  | 06/30/20 05:43 | 07/07/20 08:51 | 7440-50-8 |      |
| Iron  | <200    | ug/L  | 200  | 200  | 1  | 06/30/20 05:43 | 07/07/20 08:51 | 7439-89-6 |      |
| Magnesium   | 17900   | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 08:51 | 7439-95-4 |      |
| Manganese   | 945     | ug/L  | 50.0 | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 08:51 | 7439-96-5 |      |
| Molybdenum  | <50.0   | ug/L  | 50.0 | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 08:51 | 7439-98-7 |      |
| Nickel  | <20.0   | ug/L  | 20.0 | 20.0 | 1  | 06/30/20 05:43 | 07/07/20 08:51 | 7440-02-0 |      |
| Potassium   | 3880    | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 08:51 | 7440-09-7 |      |
| Sodium  | 276000  | ug/L  | 2000 | 2000 | 2  | 06/30/20 05:43 | 07/07/20 10:54 | 7440-23-5 |      |
| Strontium   | <1000   | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 08:51 | 7440-24-6 |      |
| Zinc  | <50.0   | ug/L  | 50.0 | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 08:51 | 7440-66-6 |      |
| <b>6020 MET ICPMS</b>   |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 6020    Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis       |         |       |      |      |    |                |                |           |      |
| Aluminum  | <50.0   | ug/L  | 50.0 | 50.0 | 1  | 06/30/20 09:29 | 07/01/20 09:59 | 7429-90-5 |      |
| Antimony  | <2.0    | ug/L  | 2.0  | 2.0  | 1  | 06/30/20 09:29 | 07/01/20 09:59 | 7440-36-0 |      |
| Beryllium   | <1.0    | ug/L  | 1.0  | 1.0  | 1  | 06/30/20 09:29 | 07/01/20 09:59 | 7440-41-7 |      |
| Cadmium   | <1.0    | ug/L  | 1.0  | 1.0  | 1  | 06/30/20 09:29 | 07/01/20 09:59 | 7440-43-9 |      |
| Lead  | <3.0    | ug/L  | 3.0  | 3.0  | 1  | 06/30/20 09:29 | 07/01/20 09:59 | 7439-92-1 |      |
| Selenium  | <5.0    | ug/L  | 5.0  | 5.0  | 1  | 06/30/20 09:29 | 07/01/20 09:59 | 7782-49-2 |      |
| Silver  | <0.20   | ug/L  | 0.25 | 0.20 | 1  | 06/30/20 09:29 | 07/01/20 09:59 | 7440-22-4 |      |
| Thallium  | <2.0    | ug/L  | 2.0  | 2.0  | 1  | 06/30/20 09:29 | 07/01/20 09:59 | 7440-28-0 |      |
| Titanium  | 172     | ug/L  | 5.0  | 0.48 | 5  | 06/30/20 09:29 | 07/02/20 00:44 | 7440-32-6 | N2   |
| Vanadium  | <4.0    | ug/L  | 4.0  | 4.0  | 1  | 06/30/20 09:29 | 07/01/20 09:59 | 7440-62-2 |      |
| <b>7470 Mercury</b>   |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 7470    Preparation Method: EPA 7470<br>Pace Analytical Services - Indianapolis        |         |       |      |      |    |                |                |           |      |
| Mercury   | <0.12   | ug/L  | 0.20 | 0.12 | 1  | 07/01/20 11:50 | 07/01/20 23:01 | 7439-97-6 |      |
| <b>8270 100mL Combo RV</b>  |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis |         |       |      |      |    |                |                |           |      |
| Acenaphthene  | <4.8    | ug/L  | 4.8  | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:27 | 83-32-9   |      |
| Acenaphthylene  | <4.8    | ug/L  | 4.8  | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:27 | 208-96-8  |      |
| Anthracene  | <4.8    | ug/L  | 4.8  | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:27 | 120-12-7  |      |
| Benzo(a)anthracene  | <0.95   | ug/L  | 0.95 | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 18:27 | 56-55-3   |      |
| Benzo(a)pyrene  | <0.19   | ug/L  | 0.19 | 0.19 | 1  | 06/29/20 10:44 | 06/29/20 18:27 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <0.95   | ug/L  | 0.95 | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 18:27 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <0.95   | ug/L  | 0.95 | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 18:27 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <0.95   | ug/L  | 0.95 | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 18:27 | 207-08-9  |      |
| Chrysene  | <0.95   | ug/L  | 0.95 | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 18:27 | 218-01-9  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-12**      **Lab ID: 50260974001**      Collected: 06/23/20 16:30      Received: 06/26/20 09:15      Matrix: Water

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 100mL Combo RV</b>   |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3510 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                            |         |       |        |      |    |                |                |           |      |
| Dibenz(a,h)anthracene  | <1.9    | ug/L  | 1.9    | 1.9  | 1  | 06/29/20 10:44 | 06/29/20 18:27 | 53-70-3   |      |
| Fluoranthene   | <0.95   | ug/L  | 0.95   | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 18:27 | 206-44-0  |      |
| Fluorene   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:27 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | <1.9    | ug/L  | 1.9    | 1.9  | 1  | 06/29/20 10:44 | 06/29/20 18:27 | 193-39-5  |      |
| 2-Methylnaphthalene  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:27 | 91-57-6   |      |
| Naphthalene  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:27 | 91-20-3   |      |
| Phenanthrene   | <1.9    | ug/L  | 1.9    | 1.9  | 1  | 06/29/20 10:44 | 06/29/20 18:27 | 85-01-8   |      |
| Pyrene   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:27 | 129-00-0  |      |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |           |      |
| 2-Fluorobiphenyl (S)   | 47      | %     | 32-107 |      | 1  | 06/29/20 10:44 | 06/29/20 18:27 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 85      | %     | 29-143 |      | 1  | 06/29/20 10:44 | 06/29/20 18:27 | 1718-51-0 |      |
| <b>8270 SVOC Combo Water</b>                                       |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3510        |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                            |         |       |        |      |    |                |                |           |      |
| 4-Bromophenylphenyl ether  | <3.4    | ug/L  | 9.5    | 3.4  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 101-55-3  |      |
| Butylbenzylphthalate   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 85-68-7   |      |
| Carbazole  | <9.5    | ug/L  | 9.5    | 9.5  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 86-74-8   |      |
| 4-Chloro-3-methylphenol  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane   | <3.6    | ug/L  | 9.5    | 3.6  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 111-91-1  |      |
| bis(2-Chloroethyl) ether   | <2.1    | ug/L  | 4.8    | 2.1  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                                       | <3.8    | ug/L  | 9.5    | 3.8  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 108-60-1  |      |
| 2-Chloronaphthalene  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 91-58-7   |      |
| 2-Chlorophenol   | <9.5    | ug/L  | 9.5    | 9.5  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether   | <2.7    | ug/L  | 9.5    | 2.7  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 7005-72-3 |      |
| Dibenzofuran   | <3.8    | ug/L  | 4.8    | 3.8  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 132-64-9  |      |
| 2,4-Dichlorophenol   | <9.5    | ug/L  | 9.5    | 9.5  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 120-83-2  |      |
| Diethylphthalate   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 84-66-2   |      |
| 2,4-Dimethylphenol   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 105-67-9  |      |
| Dimethylphthalate  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 131-11-3  |      |
| Di-n-butylphthalate  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | <19.0   | ug/L  | 19.0   | 19.0 | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 534-52-1  |      |
| 2,4-Dinitrophenol  | <3.7    | ug/L  | 47.6   | 3.7  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 51-28-5   |      |
| 2,4-Dinitrotoluene   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 121-14-2  |      |
| 2,6-Dinitrotoluene   | <3.2    | ug/L  | 4.8    | 3.2  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 606-20-2  |      |
| Di-n-octylphthalate  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 117-84-0  |      |
| 1,2-Diphenylhydrazine  | <3.5    | ug/L  | 9.5    | 3.5  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 117-81-7  |      |
| Hexachloro-1,3-butadiene   | <2.9    | ug/L  | 4.8    | 2.9  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 87-68-3   |      |
| Hexachlorobenzene  | <2.6    | ug/L  | 4.8    | 2.6  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 118-74-1  |      |
| Hexachlorocyclopentadiene  | <23.8   | ug/L  | 23.8   | 23.8 | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 77-47-4   |      |
| Hexachloroethane   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 67-72-1   |      |
| Isophorone   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 78-59-1   |      |
| 2-Methylphenol(o-Cresol)   | <9.5    | ug/L  | 9.5    | 9.5  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                                       | <19.0   | ug/L  | 19.0   | 19.0 | 1  | 06/29/20 10:44 | 06/29/20 18:31 |           |      |
| 2-Nitroaniline   | <5.5    | ug/L  | 9.5    | 5.5  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 88-74-4   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-12**      **Lab ID: 50260974001**      Collected: 06/23/20 16:30      Received: 06/26/20 09:15      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC Combo Water</b>                                |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3510 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| 3-Nitroaniline  | <4.8    | ug/L  | 9.5    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 99-09-2   |      |
| 4-Nitroaniline  | <4.6    | ug/L  | 9.5    | 4.6  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 100-01-6  |      |
| Nitrobenzene  | <2.9    | ug/L  | 4.8    | 2.9  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 98-95-3   |      |
| 2-Nitrophenol   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 88-75-5   |      |
| 4-Nitrophenol   | <5.8    | ug/L  | 47.6   | 5.8  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 100-02-7  |      |
| N-Nitrosodimethylamine                                      | <2.7    | ug/L  | 9.5    | 2.7  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                                  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                      | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 86-30-6   |      |
| Pentachlorophenol   | <1.8    | ug/L  | 19.0   | 1.8  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 87-86-5   |      |
| Phenol  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 108-95-2  |      |
| 1,2,4-Trichlorobenzene                                      | <1.0    | ug/L  | 9.5    | 1.0  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                       | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                       | <3.8    | ug/L  | 4.8    | 3.8  | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 88-06-2   |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)   | 49      | %     | 42-109 |      | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 4165-60-0 |      |
| Phenol-d5 (S)   | 28      | %     | 11-56  |      | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 4165-62-2 |      |
| 2-Fluorophenol (S)  | 36      | %     | 16-75  |      | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                    | 70      | %     | 45-126 |      | 1  | 06/29/20 10:44 | 06/29/20 18:31 | 118-79-6  |      |
| <b>8260 MSV Low Level</b>                                   |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 5030B/8260                           |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| Acetone   | <50.0   | ug/L  | 50.0   | 50.0 | 1  |                | 06/30/20 02:04 | 67-64-1   |      |
| Acrylonitrile   | <2.0    | ug/L  | 2.0    | 2.0  | 1  |                | 06/30/20 02:04 | 107-13-1  |      |
| tert-Amylmethyl ether                                       | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 02:04 | 994-05-8  | N2   |
| Benzene   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 02:04 | 71-43-2   |      |
| Bromobenzene  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 02:04 | 108-86-1  |      |
| Bromochloromethane  | <0.22   | ug/L  | 1.0    | 0.22 | 1  |                | 06/30/20 02:04 | 74-97-5   |      |
| Bromodichloromethane  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 02:04 | 75-27-4   |      |
| Bromoform   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 02:04 | 75-25-2   |      |
| Bromomethane  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 02:04 | 74-83-9   |      |
| 2-Butanone (MEK)  | <25.0   | ug/L  | 25.0   | 25.0 | 1  |                | 06/30/20 02:04 | 78-93-3   |      |
| tert-Butyl Alcohol  | <50.0   | ug/L  | 50.0   | 50.0 | 1  |                | 06/30/20 02:04 | 75-65-0   |      |
| n-Butylbenzene  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 02:04 | 104-51-8  |      |
| sec-Butylbenzene  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 02:04 | 135-98-8  |      |
| tert-Butylbenzene   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 02:04 | 98-06-6   |      |
| Carbon disulfide  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 02:04 | 75-15-0   |      |
| Carbon tetrachloride  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 02:04 | 56-23-5   |      |
| Chlorobenzene   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 02:04 | 108-90-7  |      |
| Chloroethane  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 02:04 | 75-00-3   |      |
| Chloroform  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 02:04 | 67-66-3   |      |
| Chloromethane   | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 02:04 | 74-87-3   |      |
| Cyclohexane   | <10.0   | ug/L  | 10.0   | 10.0 | 1  |                | 06/30/20 02:04 | 110-82-7  | N2   |
| 1,2-Dibromo-3-chloropropane                                 | <0.25   | ug/L  | 0.50   | 0.25 | 1  |                | 06/30/20 02:04 | 96-12-8   |      |
| Dibromochloromethane  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 02:04 | 124-48-1  |      |
| 1,2-Dibromoethane (EDB)                                     | <0.23   | ug/L  | 0.50   | 0.23 | 1  |                | 06/30/20 02:04 | 106-93-4  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260974

**Sample: MW-12**      **Lab ID: 50260974001**      Collected: 06/23/20 16:30      Received: 06/26/20 09:15      Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 02:04 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:04 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:04 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:04 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.40   | ug/L  | 100  | 0.40 | 1  |          | 06/30/20 02:04 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 02:04 | 75-71-8    | L1   |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:04 | 75-34-3    |      |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:04 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:04 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:04 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:04 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:04 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 02:04 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 02:04 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 02:04 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 02:04 | 108-20-3   | N2   |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:04 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 02:04 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 02:04 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 06/30/20 02:04 | 591-78-6   |      |
| Iodomethane                             | <0.51   | ug/L  | 5.0  | 0.51 | 1  |          | 06/30/20 02:04 | 74-88-4    |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 02:04 | 98-82-8    |      |
| p-Isopropyltoluene                      | <0.11   | ug/L  | 1.0  | 0.11 | 1  |          | 06/30/20 02:04 | 99-87-6    |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 02:04 | 75-09-2    |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0 | 5.0  | 1  |          | 06/30/20 02:04 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 06/30/20 02:04 | 108-10-1   |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 02:04 | 1634-04-4  |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 02:04 | 91-20-3    |      |
| n-Propylbenzene                         | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 02:04 | 103-65-1   |      |
| Styrene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:04 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:04 | 630-20-6   |      |
| 1,1,1,2,2-Tetrachloroethane             | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:04 | 79-34-5    |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:04 | 127-18-4   |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0 | 90.0 | 1  |          | 06/30/20 02:04 | 109-99-9   | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:04 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 02:04 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 02:04 | 120-82-1   |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:04 | 71-55-6    |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:04 | 79-00-5    |      |
| Trichloroethene                         | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:04 | 79-01-6    |      |
| Trichlorofluoromethane                  | <1.0    | ug/L  | 2.0  | 1.0  | 1  |          | 06/30/20 02:04 | 75-69-4    |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:04 | 96-18-4    |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 02:04 | 526-73-8   | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0  | 1.0  | 1  |          | 06/30/20 02:04 | 95-63-6    |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0  | 1.0  | 1  |          | 06/30/20 02:04 | 108-67-8   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260974

**Sample: MW-12**      **Lab ID: 50260974001**      Collected: 06/23/20 16:30      Received: 06/26/20 09:15      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 02:04 | 75-01-4     |      |
| m&p-Xylene                              | <0.24   | ug/L  | 2.0    | 0.24 | 1  |          | 06/30/20 02:04 | 179601-23-1 |      |
| o-Xylene                                | <0.16   | ug/L  | 1.0    | 0.16 | 1  |          | 06/30/20 02:04 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 103     | %     | 85-116 |      | 1  |          | 06/30/20 02:04 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 100     | %     | 75-120 |      | 1  |          | 06/30/20 02:04 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 108     | %     | 83-111 |      | 1  |          | 06/30/20 02:04 | 2037-26-5   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-123**      **Lab ID: 50260974002**      Collected: 06/23/20 15:50      Received: 06/26/20 09:15      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|------------|------|
| <b>8082 GCS PCB RV Waters</b>   |         |       |        |      |    |                |                |            |      |
| Analytical Method: EPA 8082    Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis  |         |       |        |      |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)   | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 06/30/20 21:50 | 07/02/20 03:53 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)   | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 06/30/20 21:50 | 07/02/20 03:53 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)   | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 06/30/20 21:50 | 07/02/20 03:53 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)   | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 06/30/20 21:50 | 07/02/20 03:53 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)   | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 06/30/20 21:50 | 07/02/20 03:53 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)   | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 06/30/20 21:50 | 07/02/20 03:53 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)   | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 06/30/20 21:50 | 07/02/20 03:53 | 11096-82-5 |      |
| PCB-1262 (Aroclor 1262)   | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 06/30/20 21:50 | 07/02/20 03:53 | 37324-23-5 | N2   |
| PCB-1268 (Aroclor 1268)   | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 06/30/20 21:50 | 07/02/20 03:53 | 11100-14-4 | N2   |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |            |      |
| Tetrachloro-m-xylene (S)  | 45      | %     | 10-144 |      | 1  | 06/30/20 21:50 | 07/02/20 03:53 | 877-09-8   |      |
| <b>6010 MET ICP</b>   |         |       |        |      |    |                |                |            |      |
| Analytical Method: EPA 6010    Preparation Method: EPA 3010<br>Pace Analytical Services - Indianapolis  |         |       |        |      |    |                |                |            |      |
| Arsenic   | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 06/30/20 05:43 | 07/07/20 08:54 | 7440-38-2  |      |
| Barium  | 283     | ug/L  | 100    | 100  | 1  | 06/30/20 05:43 | 07/07/20 08:54 | 7440-39-3  |      |
| Boron   | <300    | ug/L  | 300    | 300  | 1  | 06/30/20 05:43 | 07/07/20 08:54 | 7440-42-8  |      |
| Calcium   | 119000  | ug/L  | 1000   | 1000 | 1  | 06/30/20 05:43 | 07/07/20 08:54 | 7440-70-2  |      |
| Chromium  | 25.5    | ug/L  | 10.0   | 10.0 | 1  | 06/30/20 05:43 | 07/07/20 08:54 | 7440-47-3  |      |
| Cobalt  | <20.0   | ug/L  | 20.0   | 20.0 | 1  | 06/30/20 05:43 | 07/07/20 08:54 | 7440-48-4  |      |
| Copper  | 17.8    | ug/L  | 4.0    | 4.0  | 1  | 06/30/20 05:43 | 07/07/20 08:54 | 7440-50-8  |      |
| Iron  | 10800   | ug/L  | 200    | 200  | 1  | 06/30/20 05:43 | 07/07/20 08:54 | 7439-89-6  |      |
| Magnesium   | 18300   | ug/L  | 1000   | 1000 | 1  | 06/30/20 05:43 | 07/07/20 08:54 | 7439-95-4  |      |
| Manganese   | 218     | ug/L  | 50.0   | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 08:54 | 7439-96-5  |      |
| Molybdenum  | <50.0   | ug/L  | 50.0   | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 08:54 | 7439-98-7  |      |
| Nickel  | <20.0   | ug/L  | 20.0   | 20.0 | 1  | 06/30/20 05:43 | 07/07/20 08:54 | 7440-02-0  |      |
| Potassium   | 63600   | ug/L  | 1000   | 1000 | 1  | 06/30/20 05:43 | 07/07/20 08:54 | 7440-09-7  |      |
| Sodium  | 59300   | ug/L  | 1000   | 1000 | 1  | 06/30/20 05:43 | 07/07/20 08:54 | 7440-23-5  |      |
| Strontium   | <1000   | ug/L  | 1000   | 1000 | 1  | 06/30/20 05:43 | 07/07/20 08:54 | 7440-24-6  |      |
| Zinc  | 342     | ug/L  | 50.0   | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 08:54 | 7440-66-6  |      |
| <b>6020 MET ICPMS</b>   |         |       |        |      |    |                |                |            |      |
| Analytical Method: EPA 6020    Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis |         |       |        |      |    |                |                |            |      |
| Aluminum  | 9930    | ug/L  | 1000   | 1000 | 20 | 06/30/20 09:29 | 07/02/20 01:07 | 7429-90-5  |      |
| Antimony  | <2.0    | ug/L  | 2.0    | 2.0  | 1  | 06/30/20 09:29 | 07/01/20 10:30 | 7440-36-0  |      |
| Beryllium   | <1.0    | ug/L  | 1.0    | 1.0  | 1  | 06/30/20 09:29 | 07/01/20 10:30 | 7440-41-7  |      |
| Cadmium   | <1.0    | ug/L  | 1.0    | 1.0  | 1  | 06/30/20 09:29 | 07/01/20 10:30 | 7440-43-9  |      |
| Lead  | 18.8    | ug/L  | 3.0    | 3.0  | 1  | 06/30/20 09:29 | 07/01/20 10:30 | 7439-92-1  |      |
| Selenium  | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 06/30/20 09:29 | 07/01/20 10:30 | 7782-49-2  |      |
| Silver  | <0.20   | ug/L  | 0.25   | 0.20 | 1  | 06/30/20 09:29 | 07/01/20 10:30 | 7440-22-4  |      |
| Thallium  | <2.0    | ug/L  | 2.0    | 2.0  | 1  | 06/30/20 09:29 | 07/01/20 10:30 | 7440-28-0  |      |
| Titanium  | 436     | ug/L  | 5.0    | 0.48 | 5  | 06/30/20 09:29 | 07/02/20 01:11 | 7440-32-6  | N2   |
| Vanadium  | 33.5    | ug/L  | 4.0    | 4.0  | 1  | 06/30/20 09:29 | 07/01/20 10:30 | 7440-62-2  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-123**      **Lab ID: 50260974002**      Collected: 06/23/20 15:50      Received: 06/26/20 09:15      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>7470 Mercury</b>   |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 7470    Preparation Method: EPA 7470<br>Pace Analytical Services - Indianapolis        |         |       |        |      |    |                |                |           |      |
| Mercury   | 0.27    | ug/L  | 0.20   | 0.12 | 1  | 07/01/20 11:50 | 07/01/20 23:08 | 7439-97-6 |      |
| <b>8270 100mL Combo RV</b>  |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis |         |       |        |      |    |                |                |           |      |
| Acenaphthene  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:38 | 83-32-9   |      |
| Acenaphthylene  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:38 | 208-96-8  |      |
| Anthracene  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:38 | 120-12-7  |      |
| Benzo(a)anthracene  | <0.95   | ug/L  | 0.95   | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 18:38 | 56-55-3   |      |
| Benzo(a)pyrene  | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 06/29/20 10:44 | 06/29/20 18:38 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <0.95   | ug/L  | 0.95   | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 18:38 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <0.95   | ug/L  | 0.95   | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 18:38 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <0.95   | ug/L  | 0.95   | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 18:38 | 207-08-9  |      |
| Chrysene  | <0.95   | ug/L  | 0.95   | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 18:38 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | <1.9    | ug/L  | 1.9    | 1.9  | 1  | 06/29/20 10:44 | 06/29/20 18:38 | 53-70-3   |      |
| Fluoranthene  | <0.95   | ug/L  | 0.95   | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 18:38 | 206-44-0  |      |
| Fluorene  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:38 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene  | <1.9    | ug/L  | 1.9    | 1.9  | 1  | 06/29/20 10:44 | 06/29/20 18:38 | 193-39-5  |      |
| 2-Methylnaphthalene   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:38 | 91-57-6   |      |
| Naphthalene   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:38 | 91-20-3   |      |
| Phenanthrene  | <1.9    | ug/L  | 1.9    | 1.9  | 1  | 06/29/20 10:44 | 06/29/20 18:38 | 85-01-8   |      |
| Pyrene  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:38 | 129-00-0  |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| 2-Fluorobiphenyl (S)  | 52      | %     | 32-107 |      | 1  | 06/29/20 10:44 | 06/29/20 18:38 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 76      | %     | 29-143 |      | 1  | 06/29/20 10:44 | 06/29/20 18:38 | 1718-51-0 |      |
| <b>8270 SVOC Combo Water</b>  |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis        |         |       |        |      |    |                |                |           |      |
| 4-Bromophenylphenyl ether   | <3.4    | ug/L  | 9.5    | 3.4  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 101-55-3  |      |
| Butylbenzylphthalate  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 85-68-7   |      |
| Carbazole   | <9.5    | ug/L  | 9.5    | 9.5  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 86-74-8   |      |
| 4-Chloro-3-methylphenol   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane  | <3.6    | ug/L  | 9.5    | 3.6  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 111-91-1  |      |
| bis(2-Chloroethyl) ether  | <2.1    | ug/L  | 4.8    | 2.1  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether  | <3.8    | ug/L  | 9.5    | 3.8  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 108-60-1  |      |
| 2-Chloronaphthalene   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 91-58-7   |      |
| 2-Chlorophenol  | <9.5    | ug/L  | 9.5    | 9.5  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether  | <2.7    | ug/L  | 9.5    | 2.7  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 7005-72-3 |      |
| Dibenzofuran  | <3.8    | ug/L  | 4.8    | 3.8  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 132-64-9  |      |
| 2,4-Dichlorophenol  | <9.5    | ug/L  | 9.5    | 9.5  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 120-83-2  |      |
| Diethylphthalate  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 84-66-2   |      |
| 2,4-Dimethylphenol  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 105-67-9  |      |
| Dimethylphthalate   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 131-11-3  |      |
| Di-n-butylphthalate   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol  | <19.0   | ug/L  | 19.0   | 19.0 | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 534-52-1  |      |
| 2,4-Dinitrophenol   | <3.7    | ug/L  | 47.6   | 3.7  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 51-28-5   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-123**      **Lab ID: 50260974002**      Collected: 06/23/20 15:50      Received: 06/26/20 09:15      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC Combo Water</b>                                |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3510 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| 2,4-Dinitrotoluene  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 121-14-2  |      |
| 2,6-Dinitrotoluene  | <3.2    | ug/L  | 4.8    | 3.2  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 606-20-2  |      |
| Di-n-octylphthalate   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                       | <3.5    | ug/L  | 9.5    | 3.5  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate                                  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 117-81-7  |      |
| Hexachloro-1,3-butadiene                                    | <2.9    | ug/L  | 4.8    | 2.9  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 87-68-3   |      |
| Hexachlorobenzene   | <2.6    | ug/L  | 4.8    | 2.6  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                   | <23.8   | ug/L  | 23.8   | 23.8 | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 77-47-4   |      |
| Hexachloroethane  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 67-72-1   |      |
| Isophorone  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 78-59-1   |      |
| 2-Methylphenol(o-Cresol)                                    | <9.5    | ug/L  | 9.5    | 9.5  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                                | <19.0   | ug/L  | 19.0   | 19.0 | 1  | 06/29/20 10:44 | 06/29/20 18:48 |           |      |
| 2-Nitroaniline  | <5.5    | ug/L  | 9.5    | 5.5  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 88-74-4   |      |
| 3-Nitroaniline  | <4.8    | ug/L  | 9.5    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 99-09-2   |      |
| 4-Nitroaniline  | <4.6    | ug/L  | 9.5    | 4.6  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 100-01-6  |      |
| Nitrobenzene  | <2.9    | ug/L  | 4.8    | 2.9  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 98-95-3   |      |
| 2-Nitrophenol   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 88-75-5   |      |
| 4-Nitrophenol   | <5.8    | ug/L  | 47.6   | 5.8  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 100-02-7  |      |
| N-Nitrosodimethylamine                                      | <2.7    | ug/L  | 9.5    | 2.7  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                                  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                      | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 86-30-6   |      |
| Pentachlorophenol   | <1.8    | ug/L  | 19.0   | 1.8  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 87-86-5   |      |
| Phenol  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 108-95-2  |      |
| 1,2,4-Trichlorobenzene                                      | <1.0    | ug/L  | 9.5    | 1.0  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                       | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                       | <3.8    | ug/L  | 4.8    | 3.8  | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 88-06-2   |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)   | 58      | %     | 42-109 |      | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 4165-60-0 |      |
| Phenol-d5 (S)   | 35      | %     | 11-56  |      | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 4165-62-2 |      |
| 2-Fluorophenol (S)  | 45      | %     | 16-75  |      | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                    | 73      | %     | 45-126 |      | 1  | 06/29/20 10:44 | 06/29/20 18:48 | 118-79-6  |      |
| <b>8260 MSV Low Level</b>                                   |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 5030B/8260                           |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| Acetone   | <50.0   | ug/L  | 50.0   | 50.0 | 1  |                | 06/30/20 02:37 | 67-64-1   |      |
| Acrylonitrile   | <2.0    | ug/L  | 2.0    | 2.0  | 1  |                | 06/30/20 02:37 | 107-13-1  |      |
| tert-Amylmethyl ether                                       | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 02:37 | 994-05-8  | N2   |
| Benzene   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 02:37 | 71-43-2   |      |
| Bromobenzene  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 02:37 | 108-86-1  |      |
| Bromochloromethane  | <0.22   | ug/L  | 1.0    | 0.22 | 1  |                | 06/30/20 02:37 | 74-97-5   |      |
| Bromodichloromethane  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 02:37 | 75-27-4   |      |
| Bromoform   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 02:37 | 75-25-2   |      |
| Bromomethane  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 02:37 | 74-83-9   |      |
| 2-Butanone (MEK)  | <25.0   | ug/L  | 25.0   | 25.0 | 1  |                | 06/30/20 02:37 | 78-93-3   |      |
| tert-Butyl Alcohol  | <50.0   | ug/L  | 50.0   | 50.0 | 1  |                | 06/30/20 02:37 | 75-65-0   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

Sample: MW-123 Lab ID: 50260974002 Collected: 06/23/20 15:50 Received: 06/26/20 09:15 Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| n-Butylbenzene                          | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:37 | 104-51-8   |      |
| sec-Butylbenzene                        | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:37 | 135-98-8   |      |
| tert-Butylbenzene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:37 | 98-06-6    |      |
| Carbon disulfide                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 02:37 | 75-15-0    |      |
| Carbon tetrachloride                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:37 | 56-23-5    |      |
| Chlorobenzene                           | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:37 | 108-90-7   |      |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 02:37 | 75-00-3    |      |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:37 | 67-66-3    |      |
| Chloromethane                           | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 02:37 | 74-87-3    |      |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 06/30/20 02:37 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 06/30/20 02:37 | 96-12-8    |      |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 02:37 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 06/30/20 02:37 | 106-93-4   |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 02:37 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:37 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:37 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:37 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.40   | ug/L  | 100  | 0.40 | 1  |          | 06/30/20 02:37 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 02:37 | 75-71-8    | L1   |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:37 | 75-34-3    |      |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:37 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:37 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:37 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:37 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:37 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 02:37 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 02:37 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 02:37 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 02:37 | 108-20-3   | N2   |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:37 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 02:37 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 02:37 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 06/30/20 02:37 | 591-78-6   |      |
| Iodomethane                             | <0.51   | ug/L  | 5.0  | 0.51 | 1  |          | 06/30/20 02:37 | 74-88-4    |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 02:37 | 98-82-8    |      |
| p-Isopropyltoluene                      | <0.11   | ug/L  | 1.0  | 0.11 | 1  |          | 06/30/20 02:37 | 99-87-6    |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 02:37 | 75-09-2    |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0 | 5.0  | 1  |          | 06/30/20 02:37 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 06/30/20 02:37 | 108-10-1   |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 02:37 | 1634-04-4  |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 02:37 | 91-20-3    |      |
| n-Propylbenzene                         | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 02:37 | 103-65-1   |      |
| Styrene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:37 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:37 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 02:37 | 79-34-5    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-123**      **Lab ID: 50260974002**      Collected: 06/23/20 15:50      Received: 06/26/20 09:15      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 02:37 | 127-18-4    |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0   | 90.0 | 1  |          | 06/30/20 02:37 | 109-99-9    | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 02:37 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 02:37 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 02:37 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 02:37 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 02:37 | 79-00-5     |      |
| Trichloroethene                         | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 02:37 | 79-01-6     |      |
| Trichlorofluoromethane                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 06/30/20 02:37 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 02:37 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 02:37 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 06/30/20 02:37 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 06/30/20 02:37 | 108-67-8    |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 02:37 | 75-01-4     |      |
| m&p-Xylene                              | <0.24   | ug/L  | 2.0    | 0.24 | 1  |          | 06/30/20 02:37 | 179601-23-1 |      |
| o-Xylene                                | <0.16   | ug/L  | 1.0    | 0.16 | 1  |          | 06/30/20 02:37 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 103     | %     | 85-116 |      | 1  |          | 06/30/20 02:37 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 100     | %     | 75-120 |      | 1  |          | 06/30/20 02:37 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 109     | %     | 83-111 |      | 1  |          | 06/30/20 02:37 | 2037-26-5   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260974

Sample: MW-124 Lab ID: 50260974003 Collected: 06/23/20 14:10 Received: 06/26/20 09:15 Matrix: Water

| Parameters  | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|------|------|----|----------------|----------------|-----------|------|
| <b>6010 MET ICP</b>   |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3010        |         |       |      |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                         |         |       |      |      |    |                |                |           |      |
| Arsenic   | <5.0    | ug/L  | 5.0  | 5.0  | 1  | 06/30/20 05:43 | 07/07/20 08:56 | 7440-38-2 |      |
| Barium  | <100    | ug/L  | 100  | 100  | 1  | 06/30/20 05:43 | 07/07/20 08:56 | 7440-39-3 |      |
| Boron   | <300    | ug/L  | 300  | 300  | 1  | 06/30/20 05:43 | 07/07/20 08:56 | 7440-42-8 |      |
| Calcium   | 103000  | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 08:56 | 7440-70-2 |      |
| Chromium  | <10.0   | ug/L  | 10.0 | 10.0 | 1  | 06/30/20 05:43 | 07/07/20 08:56 | 7440-47-3 |      |
| Cobalt  | <20.0   | ug/L  | 20.0 | 20.0 | 1  | 06/30/20 05:43 | 07/07/20 08:56 | 7440-48-4 |      |
| Copper  | 8.7     | ug/L  | 4.0  | 4.0  | 1  | 06/30/20 05:43 | 07/07/20 08:56 | 7440-50-8 |      |
| Iron  | 1290    | ug/L  | 200  | 200  | 1  | 06/30/20 05:43 | 07/07/20 08:56 | 7439-89-6 |      |
| Magnesium   | 14600   | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 08:56 | 7439-95-4 |      |
| Manganese   | 781     | ug/L  | 50.0 | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 08:56 | 7439-96-5 |      |
| Molybdenum  | <50.0   | ug/L  | 50.0 | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 08:56 | 7439-98-7 |      |
| Nickel  | <20.0   | ug/L  | 20.0 | 20.0 | 1  | 06/30/20 05:43 | 07/07/20 08:56 | 7440-02-0 |      |
| Potassium   | 1940    | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 08:56 | 7440-09-7 |      |
| Sodium  | 21500   | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 08:56 | 7440-23-5 |      |
| Strontium   | <1000   | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 08:56 | 7440-24-6 |      |
| Zinc  | <50.0   | ug/L  | 50.0 | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 08:56 | 7440-66-6 |      |
| <b>6020 MET ICPMS</b>   |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 200.2       |         |       |      |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                         |         |       |      |      |    |                |                |           |      |
| Aluminum  | 784     | ug/L  | 50.0 | 50.0 | 1  | 06/30/20 09:29 | 07/01/20 10:35 | 7429-90-5 |      |
| Antimony  | <2.0    | ug/L  | 2.0  | 2.0  | 1  | 06/30/20 09:29 | 07/01/20 10:35 | 7440-36-0 |      |
| Beryllium   | <1.0    | ug/L  | 1.0  | 1.0  | 1  | 06/30/20 09:29 | 07/01/20 10:35 | 7440-41-7 |      |
| Cadmium   | <1.0    | ug/L  | 1.0  | 1.0  | 1  | 06/30/20 09:29 | 07/01/20 10:35 | 7440-43-9 |      |
| Lead  | <3.0    | ug/L  | 3.0  | 3.0  | 1  | 06/30/20 09:29 | 07/01/20 10:35 | 7439-92-1 |      |
| Selenium  | <5.0    | ug/L  | 5.0  | 5.0  | 1  | 06/30/20 09:29 | 07/01/20 10:35 | 7782-49-2 |      |
| Silver  | <0.20   | ug/L  | 0.25 | 0.20 | 1  | 06/30/20 09:29 | 07/01/20 10:35 | 7440-22-4 |      |
| Thallium  | <2.0    | ug/L  | 2.0  | 2.0  | 1  | 06/30/20 09:29 | 07/01/20 10:35 | 7440-28-0 |      |
| Titanium  | 221     | ug/L  | 2.0  | 0.19 | 2  | 06/30/20 09:29 | 07/02/20 01:16 | 7440-32-6 | N2   |
| Vanadium  | <4.0    | ug/L  | 4.0  | 4.0  | 1  | 06/30/20 09:29 | 07/01/20 10:35 | 7440-62-2 |      |
| <b>7470 Mercury</b>   |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 7470 Preparation Method: EPA 7470        |         |       |      |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                         |         |       |      |      |    |                |                |           |      |
| Mercury   | <0.12   | ug/L  | 0.20 | 0.12 | 1  | 07/01/20 11:50 | 07/01/20 23:10 | 7439-97-6 |      |
| <b>8270 100mL Combo RV</b>                                      |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 |         |       |      |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                         |         |       |      |      |    |                |                |           |      |
| Acenaphthene  | <4.5    | ug/L  | 4.5  | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 18:49 | 83-32-9   |      |
| Acenaphthylene  | <4.5    | ug/L  | 4.5  | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 18:49 | 208-96-8  |      |
| Anthracene  | <4.5    | ug/L  | 4.5  | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 18:49 | 120-12-7  |      |
| Benzo(a)anthracene  | <0.91   | ug/L  | 0.91 | 0.91 | 1  | 06/29/20 10:44 | 06/29/20 18:49 | 56-55-3   |      |
| Benzo(a)pyrene  | <0.18   | ug/L  | 0.18 | 0.18 | 1  | 06/29/20 10:44 | 06/29/20 18:49 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <0.91   | ug/L  | 0.91 | 0.91 | 1  | 06/29/20 10:44 | 06/29/20 18:49 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <0.91   | ug/L  | 0.91 | 0.91 | 1  | 06/29/20 10:44 | 06/29/20 18:49 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <0.91   | ug/L  | 0.91 | 0.91 | 1  | 06/29/20 10:44 | 06/29/20 18:49 | 207-08-9  |      |
| Chrysene  | <0.91   | ug/L  | 0.91 | 0.91 | 1  | 06/29/20 10:44 | 06/29/20 18:49 | 218-01-9  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-124**      **Lab ID: 50260974003**      Collected: 06/23/20 14:10      Received: 06/26/20 09:15      Matrix: Water

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 100mL Combo RV</b>   |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3510 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                            |         |       |        |      |    |                |                |           |      |
| Dibenz(a,h)anthracene  | <1.8    | ug/L  | 1.8    | 1.8  | 1  | 06/29/20 10:44 | 06/29/20 18:49 | 53-70-3   |      |
| Fluoranthene   | <0.91   | ug/L  | 0.91   | 0.91 | 1  | 06/29/20 10:44 | 06/29/20 18:49 | 206-44-0  |      |
| Fluorene   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 18:49 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | <1.8    | ug/L  | 1.8    | 1.8  | 1  | 06/29/20 10:44 | 06/29/20 18:49 | 193-39-5  |      |
| 2-Methylnaphthalene  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 18:49 | 91-57-6   |      |
| Naphthalene  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 18:49 | 91-20-3   |      |
| Phenanthrene   | <1.8    | ug/L  | 1.8    | 1.8  | 1  | 06/29/20 10:44 | 06/29/20 18:49 | 85-01-8   |      |
| Pyrene   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 18:49 | 129-00-0  |      |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |           |      |
| 2-Fluorobiphenyl (S)   | 53      | %     | 32-107 |      | 1  | 06/29/20 10:44 | 06/29/20 18:49 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 74      | %     | 29-143 |      | 1  | 06/29/20 10:44 | 06/29/20 18:49 | 1718-51-0 |      |
| <b>8270 SVOC Combo Water</b>                                       |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3510        |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                            |         |       |        |      |    |                |                |           |      |
| 4-Bromophenylphenyl ether  | <3.2    | ug/L  | 9.1    | 3.2  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 101-55-3  |      |
| Butylbenzylphthalate   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 85-68-7   |      |
| Carbazole  | <9.1    | ug/L  | 9.1    | 9.1  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 86-74-8   |      |
| 4-Chloro-3-methylphenol  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane   | <3.4    | ug/L  | 9.1    | 3.4  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 111-91-1  |      |
| bis(2-Chloroethyl) ether   | <2.0    | ug/L  | 4.5    | 2.0  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                                       | <3.6    | ug/L  | 9.1    | 3.6  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 108-60-1  |      |
| 2-Chloronaphthalene  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 91-58-7   |      |
| 2-Chlorophenol   | <9.1    | ug/L  | 9.1    | 9.1  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether   | <2.6    | ug/L  | 9.1    | 2.6  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 7005-72-3 |      |
| Dibenzofuran   | <3.6    | ug/L  | 4.5    | 3.6  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 132-64-9  |      |
| 2,4-Dichlorophenol   | <9.1    | ug/L  | 9.1    | 9.1  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 120-83-2  |      |
| Diethylphthalate   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 84-66-2   |      |
| 2,4-Dimethylphenol   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 105-67-9  |      |
| Dimethylphthalate  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 131-11-3  |      |
| Di-n-butylphthalate  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | <18.2   | ug/L  | 18.2   | 18.2 | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 534-52-1  |      |
| 2,4-Dinitrophenol  | <3.5    | ug/L  | 45.5   | 3.5  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 51-28-5   |      |
| 2,4-Dinitrotoluene   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 121-14-2  |      |
| 2,6-Dinitrotoluene   | <3.0    | ug/L  | 4.5    | 3.0  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 606-20-2  |      |
| Di-n-octylphthalate  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 117-84-0  |      |
| 1,2-Diphenylhydrazine  | <3.3    | ug/L  | 9.1    | 3.3  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 117-81-7  |      |
| Hexachloro-1,3-butadiene   | <2.7    | ug/L  | 4.5    | 2.7  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 87-68-3   |      |
| Hexachlorobenzene  | <2.4    | ug/L  | 4.5    | 2.4  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 118-74-1  |      |
| Hexachlorocyclopentadiene  | <22.7   | ug/L  | 22.7   | 22.7 | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 77-47-4   |      |
| Hexachloroethane   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 67-72-1   |      |
| Isophorone   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 78-59-1   |      |
| 2-Methylphenol(o-Cresol)   | <9.1    | ug/L  | 9.1    | 9.1  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                                       | <18.2   | ug/L  | 18.2   | 18.2 | 1  | 06/29/20 10:44 | 06/29/20 19:04 |           |      |
| 2-Nitroaniline   | <5.3    | ug/L  | 9.1    | 5.3  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 88-74-4   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-124**      **Lab ID: 50260974003**      Collected: 06/23/20 14:10      Received: 06/26/20 09:15      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC Combo Water</b>                                |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3510 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| 3-Nitroaniline  | <4.6    | ug/L  | 9.1    | 4.6  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 99-09-2   |      |
| 4-Nitroaniline  | <4.4    | ug/L  | 9.1    | 4.4  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 100-01-6  |      |
| Nitrobenzene  | <2.7    | ug/L  | 4.5    | 2.7  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 98-95-3   |      |
| 2-Nitrophenol   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 88-75-5   |      |
| 4-Nitrophenol   | <5.5    | ug/L  | 45.5   | 5.5  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 100-02-7  |      |
| N-Nitrosodimethylamine                                      | <2.6    | ug/L  | 9.1    | 2.6  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                                  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                      | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 86-30-6   |      |
| Pentachlorophenol   | <1.8    | ug/L  | 18.2   | 1.8  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 87-86-5   |      |
| Phenol  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 108-95-2  |      |
| 1,2,4-Trichlorobenzene                                      | <0.99   | ug/L  | 9.1    | 0.99 | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                       | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                       | <3.6    | ug/L  | 4.5    | 3.6  | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 88-06-2   |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)   | 59      | %     | 42-109 |      | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 4165-60-0 |      |
| Phenol-d5 (S)   | 34      | %     | 11-56  |      | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 4165-62-2 |      |
| 2-Fluorophenol (S)  | 46      | %     | 16-75  |      | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                    | 72      | %     | 45-126 |      | 1  | 06/29/20 10:44 | 06/29/20 19:04 | 118-79-6  |      |
| <b>8260 MSV Low Level</b>                                   |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 5030B/8260                           |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| Acetone   | <50.0   | ug/L  | 50.0   | 50.0 | 1  |                | 06/30/20 03:10 | 67-64-1   |      |
| Acrylonitrile   | <2.0    | ug/L  | 2.0    | 2.0  | 1  |                | 06/30/20 03:10 | 107-13-1  |      |
| tert-Amylmethyl ether                                       | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 03:10 | 994-05-8  | N2   |
| Benzene   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 03:10 | 71-43-2   |      |
| Bromobenzene  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 03:10 | 108-86-1  |      |
| Bromochloromethane  | <0.22   | ug/L  | 1.0    | 0.22 | 1  |                | 06/30/20 03:10 | 74-97-5   |      |
| Bromodichloromethane  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 03:10 | 75-27-4   |      |
| Bromoform   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 03:10 | 75-25-2   |      |
| Bromomethane  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 03:10 | 74-83-9   |      |
| 2-Butanone (MEK)  | <25.0   | ug/L  | 25.0   | 25.0 | 1  |                | 06/30/20 03:10 | 78-93-3   |      |
| tert-Butyl Alcohol  | <50.0   | ug/L  | 50.0   | 50.0 | 1  |                | 06/30/20 03:10 | 75-65-0   |      |
| n-Butylbenzene  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 03:10 | 104-51-8  |      |
| sec-Butylbenzene  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 03:10 | 135-98-8  |      |
| tert-Butylbenzene   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 03:10 | 98-06-6   |      |
| Carbon disulfide  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 03:10 | 75-15-0   |      |
| Carbon tetrachloride  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 03:10 | 56-23-5   |      |
| Chlorobenzene   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 03:10 | 108-90-7  |      |
| Chloroethane  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 03:10 | 75-00-3   |      |
| Chloroform  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 03:10 | 67-66-3   |      |
| Chloromethane   | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 03:10 | 74-87-3   |      |
| Cyclohexane   | <10.0   | ug/L  | 10.0   | 10.0 | 1  |                | 06/30/20 03:10 | 110-82-7  | N2   |
| 1,2-Dibromo-3-chloropropane                                 | <0.25   | ug/L  | 0.50   | 0.25 | 1  |                | 06/30/20 03:10 | 96-12-8   |      |
| Dibromochloromethane  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 03:10 | 124-48-1  |      |
| 1,2-Dibromoethane (EDB)                                     | <0.23   | ug/L  | 0.50   | 0.23 | 1  |                | 06/30/20 03:10 | 106-93-4  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260974

Sample: MW-124 Lab ID: 50260974003 Collected: 06/23/20 14:10 Received: 06/26/20 09:15 Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 03:10 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:10 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:10 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:10 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.40   | ug/L  | 100  | 0.40 | 1  |          | 06/30/20 03:10 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 03:10 | 75-71-8    | L1   |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:10 | 75-34-3    |      |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:10 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:10 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:10 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:10 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:10 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 03:10 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 03:10 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 03:10 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 03:10 | 108-20-3   | N2   |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:10 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 03:10 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 03:10 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 06/30/20 03:10 | 591-78-6   |      |
| Iodomethane                             | <0.51   | ug/L  | 5.0  | 0.51 | 1  |          | 06/30/20 03:10 | 74-88-4    |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 03:10 | 98-82-8    |      |
| p-Isopropyltoluene                      | <0.11   | ug/L  | 1.0  | 0.11 | 1  |          | 06/30/20 03:10 | 99-87-6    |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 03:10 | 75-09-2    |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0 | 5.0  | 1  |          | 06/30/20 03:10 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 06/30/20 03:10 | 108-10-1   |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 03:10 | 1634-04-4  |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 03:10 | 91-20-3    |      |
| n-Propylbenzene                         | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 03:10 | 103-65-1   |      |
| Styrene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:10 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:10 | 630-20-6   |      |
| 1,1,1,2,2-Tetrachloroethane             | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:10 | 79-34-5    |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:10 | 127-18-4   |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0 | 90.0 | 1  |          | 06/30/20 03:10 | 109-99-9   | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:10 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 03:10 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 03:10 | 120-82-1   |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:10 | 71-55-6    |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:10 | 79-00-5    |      |
| Trichloroethene                         | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:10 | 79-01-6    |      |
| Trichlorofluoromethane                  | <1.0    | ug/L  | 2.0  | 1.0  | 1  |          | 06/30/20 03:10 | 75-69-4    |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:10 | 96-18-4    |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 03:10 | 526-73-8   | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0  | 1.0  | 1  |          | 06/30/20 03:10 | 95-63-6    |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0  | 1.0  | 1  |          | 06/30/20 03:10 | 108-67-8   |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260974

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**Sample: MW-124**      **Lab ID: 50260974003**      Collected: 06/23/20 14:10      Received: 06/26/20 09:15      Matrix: Water

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| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 03:10 | 75-01-4     |      |
| m&p-Xylene                              | <0.24   | ug/L  | 2.0    | 0.24 | 1  |          | 06/30/20 03:10 | 179601-23-1 |      |
| o-Xylene                                | <0.16   | ug/L  | 1.0    | 0.16 | 1  |          | 06/30/20 03:10 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 99      | %     | 85-116 |      | 1  |          | 06/30/20 03:10 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 99      | %     | 75-120 |      | 1  |          | 06/30/20 03:10 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 106     | %     | 83-111 |      | 1  |          | 06/30/20 03:10 | 2037-26-5   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-125**      **Lab ID: 50260974004**      Collected: 06/23/20 12:55      Received: 06/26/20 09:15      Matrix: Water

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|------------|------|
| <b>8015M Alcohols in water</b>   |         |       |        |      |    |                |                |            |      |
| Analytical Method: EPA 8015 Alcohol-Glycol<br>Pace Analytical Services - Indianapolis                |         |       |        |      |    |                |                |            |      |
| n-Butanol  | <800    | ug/L  | 5000   | 800  | 1  |                | 06/29/20 13:13 | 71-36-3    |      |
| Ethanol  | <1000   | ug/L  | 5000   | 1000 | 1  |                | 06/29/20 13:13 | 64-17-5    |      |
| Methanol   | <400    | ug/L  | 5000   | 400  | 1  |                | 06/29/20 13:13 | 67-56-1    |      |
| <b>8082 GCS PCB RV Waters</b>  |         |       |        |      |    |                |                |            |      |
| Analytical Method: EPA 8082 Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis  |         |       |        |      |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)  | <0.18   | ug/L  | 0.18   | 0.18 | 1  | 06/30/20 21:50 | 07/02/20 04:07 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)  | <0.18   | ug/L  | 0.18   | 0.18 | 1  | 06/30/20 21:50 | 07/02/20 04:07 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)  | <0.18   | ug/L  | 0.18   | 0.18 | 1  | 06/30/20 21:50 | 07/02/20 04:07 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)  | <0.18   | ug/L  | 0.18   | 0.18 | 1  | 06/30/20 21:50 | 07/02/20 04:07 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)  | <0.18   | ug/L  | 0.18   | 0.18 | 1  | 06/30/20 21:50 | 07/02/20 04:07 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)  | <0.18   | ug/L  | 0.18   | 0.18 | 1  | 06/30/20 21:50 | 07/02/20 04:07 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)  | <0.18   | ug/L  | 0.18   | 0.18 | 1  | 06/30/20 21:50 | 07/02/20 04:07 | 11096-82-5 |      |
| PCB-1262 (Aroclor 1262)  | <0.18   | ug/L  | 0.18   | 0.18 | 1  | 06/30/20 21:50 | 07/02/20 04:07 | 37324-23-5 | N2   |
| PCB-1268 (Aroclor 1268)  | <0.18   | ug/L  | 0.18   | 0.18 | 1  | 06/30/20 21:50 | 07/02/20 04:07 | 11100-14-4 | N2   |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |            |      |
| Tetrachloro-m-xylene (S)   | 35      | %     | 10-144 |      | 1  | 06/30/20 21:50 | 07/02/20 04:07 | 877-09-8   |      |
| <b>6010 MET ICP</b>  |         |       |        |      |    |                |                |            |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3010<br>Pace Analytical Services - Indianapolis  |         |       |        |      |    |                |                |            |      |
| Arsenic  | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 06/30/20 05:43 | 07/07/20 09:07 | 7440-38-2  |      |
| Barium   | <100    | ug/L  | 100    | 100  | 1  | 06/30/20 05:43 | 07/07/20 09:07 | 7440-39-3  |      |
| Boron  | <300    | ug/L  | 300    | 300  | 1  | 06/30/20 05:43 | 07/07/20 09:07 | 7440-42-8  |      |
| Calcium  | 107000  | ug/L  | 1000   | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:07 | 7440-70-2  |      |
| Chromium   | <10.0   | ug/L  | 10.0   | 10.0 | 1  | 06/30/20 05:43 | 07/07/20 09:07 | 7440-47-3  |      |
| Cobalt   | <20.0   | ug/L  | 20.0   | 20.0 | 1  | 06/30/20 05:43 | 07/07/20 09:07 | 7440-48-4  |      |
| Copper   | <4.0    | ug/L  | 4.0    | 4.0  | 1  | 06/30/20 05:43 | 07/07/20 09:07 | 7440-50-8  |      |
| Iron   | 727     | ug/L  | 200    | 200  | 1  | 06/30/20 05:43 | 07/07/20 09:07 | 7439-89-6  |      |
| Magnesium  | 15600   | ug/L  | 1000   | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:07 | 7439-95-4  |      |
| Manganese  | 69.9    | ug/L  | 50.0   | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 09:07 | 7439-96-5  |      |
| Molybdenum   | <50.0   | ug/L  | 50.0   | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 09:07 | 7439-98-7  |      |
| Nickel   | <20.0   | ug/L  | 20.0   | 20.0 | 1  | 06/30/20 05:43 | 07/07/20 09:07 | 7440-02-0  |      |
| Potassium  | 17100   | ug/L  | 1000   | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:07 | 7440-09-7  |      |
| Sodium   | 12900   | ug/L  | 1000   | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:07 | 7440-23-5  |      |
| Strontium  | <1000   | ug/L  | 1000   | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:07 | 7440-24-6  |      |
| Zinc   | <50.0   | ug/L  | 50.0   | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 09:07 | 7440-66-6  |      |
| <b>6020 MET ICPMS</b>  |         |       |        |      |    |                |                |            |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis |         |       |        |      |    |                |                |            |      |
| Aluminum   | 516     | ug/L  | 50.0   | 50.0 | 1  | 06/30/20 09:29 | 07/01/20 10:40 | 7429-90-5  |      |
| Antimony   | <2.0    | ug/L  | 2.0    | 2.0  | 1  | 06/30/20 09:29 | 07/01/20 10:40 | 7440-36-0  |      |
| Beryllium  | <1.0    | ug/L  | 1.0    | 1.0  | 1  | 06/30/20 09:29 | 07/01/20 10:40 | 7440-41-7  |      |
| Cadmium  | <1.0    | ug/L  | 1.0    | 1.0  | 1  | 06/30/20 09:29 | 07/01/20 10:40 | 7440-43-9  |      |
| Lead   | <3.0    | ug/L  | 3.0    | 3.0  | 1  | 06/30/20 09:29 | 07/01/20 10:40 | 7439-92-1  |      |
| Selenium   | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 06/30/20 09:29 | 07/01/20 10:40 | 7782-49-2  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-125**      **Lab ID: 50260974004**      Collected: 06/23/20 12:55      Received: 06/26/20 09:15      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>6020 MET ICPMS</b>   |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 6020    Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis       |         |       |        |      |    |                |                |           |      |
| Silver  | <0.20   | ug/L  | 0.25   | 0.20 | 1  | 06/30/20 09:29 | 07/01/20 10:40 | 7440-22-4 |      |
| Thallium  | <2.0    | ug/L  | 2.0    | 2.0  | 1  | 06/30/20 09:29 | 07/01/20 10:40 | 7440-28-0 |      |
| Titanium  | 212     | ug/L  | 2.0    | 0.19 | 2  | 06/30/20 09:29 | 07/02/20 01:21 | 7440-32-6 | N2   |
| Vanadium  | <4.0    | ug/L  | 4.0    | 4.0  | 1  | 06/30/20 09:29 | 07/01/20 10:40 | 7440-62-2 |      |
| <b>7470 Mercury</b>   |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 7470    Preparation Method: EPA 7470<br>Pace Analytical Services - Indianapolis        |         |       |        |      |    |                |                |           |      |
| Mercury   | <0.12   | ug/L  | 0.20   | 0.12 | 1  | 07/01/20 11:50 | 07/01/20 23:12 | 7439-97-6 |      |
| <b>8270 100mL Combo RV</b>  |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis |         |       |        |      |    |                |                |           |      |
| Acenaphthene  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:01 | 83-32-9   |      |
| Acenaphthylene  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:01 | 208-96-8  |      |
| Anthracene  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:01 | 120-12-7  |      |
| Benzo(a)anthracene  | <0.91   | ug/L  | 0.91   | 0.91 | 1  | 06/29/20 10:44 | 06/29/20 19:01 | 56-55-3   |      |
| Benzo(a)pyrene  | <0.18   | ug/L  | 0.18   | 0.18 | 1  | 06/29/20 10:44 | 06/29/20 19:01 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <0.91   | ug/L  | 0.91   | 0.91 | 1  | 06/29/20 10:44 | 06/29/20 19:01 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <0.91   | ug/L  | 0.91   | 0.91 | 1  | 06/29/20 10:44 | 06/29/20 19:01 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <0.91   | ug/L  | 0.91   | 0.91 | 1  | 06/29/20 10:44 | 06/29/20 19:01 | 207-08-9  |      |
| Chrysene  | <0.91   | ug/L  | 0.91   | 0.91 | 1  | 06/29/20 10:44 | 06/29/20 19:01 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | <1.8    | ug/L  | 1.8    | 1.8  | 1  | 06/29/20 10:44 | 06/29/20 19:01 | 53-70-3   |      |
| Fluoranthene  | <0.91   | ug/L  | 0.91   | 0.91 | 1  | 06/29/20 10:44 | 06/29/20 19:01 | 206-44-0  |      |
| Fluorene  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:01 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene  | <1.8    | ug/L  | 1.8    | 1.8  | 1  | 06/29/20 10:44 | 06/29/20 19:01 | 193-39-5  |      |
| 2-Methylnaphthalene   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:01 | 91-57-6   |      |
| Naphthalene   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:01 | 91-20-3   |      |
| Phenanthrene  | <1.8    | ug/L  | 1.8    | 1.8  | 1  | 06/29/20 10:44 | 06/29/20 19:01 | 85-01-8   |      |
| Pyrene  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:01 | 129-00-0  |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| 2-Fluorobiphenyl (S)  | 45      | %     | 32-107 |      | 1  | 06/29/20 10:44 | 06/29/20 19:01 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 83      | %     | 29-143 |      | 1  | 06/29/20 10:44 | 06/29/20 19:01 | 1718-51-0 |      |
| <b>8270 SVOC Combo Water</b>  |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis        |         |       |        |      |    |                |                |           |      |
| 4-Bromophenylphenyl ether   | <3.2    | ug/L  | 9.1    | 3.2  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 101-55-3  |      |
| Butylbenzylphthalate  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 85-68-7   |      |
| Carbazole   | <9.1    | ug/L  | 9.1    | 9.1  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 86-74-8   |      |
| 4-Chloro-3-methylphenol   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane  | <3.4    | ug/L  | 9.1    | 3.4  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 111-91-1  |      |
| bis(2-Chloroethyl) ether  | <2.0    | ug/L  | 4.5    | 2.0  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether  | <3.6    | ug/L  | 9.1    | 3.6  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 108-60-1  |      |
| 2-Chloronaphthalene   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 91-58-7   |      |
| 2-Chlorophenol  | <9.1    | ug/L  | 9.1    | 9.1  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether  | <2.6    | ug/L  | 9.1    | 2.6  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 7005-72-3 |      |
| Dibenzofuran  | <3.6    | ug/L  | 4.5    | 3.6  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 132-64-9  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-125**      **Lab ID: 50260974004**      Collected: 06/23/20 12:55      Received: 06/26/20 09:15      Matrix: Water

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC Combo Water</b>   |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis |         |       |        |      |    |                |                |           |      |
| 2,4-Dichlorophenol   | <9.1    | ug/L  | 9.1    | 9.1  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 120-83-2  |      |
| Diethylphthalate   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 84-66-2   |      |
| 2,4-Dimethylphenol   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 105-67-9  |      |
| Dimethylphthalate  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 131-11-3  |      |
| Di-n-butylphthalate  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | <18.2   | ug/L  | 18.2   | 18.2 | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 534-52-1  |      |
| 2,4-Dinitrophenol  | <3.5    | ug/L  | 45.5   | 3.5  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 51-28-5   |      |
| 2,4-Dinitrotoluene   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 121-14-2  |      |
| 2,6-Dinitrotoluene   | <3.0    | ug/L  | 4.5    | 3.0  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 606-20-2  |      |
| Di-n-octylphthalate  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 117-84-0  |      |
| 1,2-Diphenylhydrazine  | <3.3    | ug/L  | 9.1    | 3.3  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 117-81-7  |      |
| Hexachloro-1,3-butadiene   | <2.7    | ug/L  | 4.5    | 2.7  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 87-68-3   |      |
| Hexachlorobenzene  | <2.4    | ug/L  | 4.5    | 2.4  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 118-74-1  |      |
| Hexachlorocyclopentadiene  | <22.7   | ug/L  | 22.7   | 22.7 | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 77-47-4   |      |
| Hexachloroethane   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 67-72-1   |      |
| Isophorone   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 78-59-1   |      |
| 2-Methylphenol(o-Cresol)   | <9.1    | ug/L  | 9.1    | 9.1  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)   | <18.2   | ug/L  | 18.2   | 18.2 | 1  | 06/29/20 10:44 | 06/29/20 19:20 |           |      |
| 2-Nitroaniline   | <5.3    | ug/L  | 9.1    | 5.3  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 88-74-4   |      |
| 3-Nitroaniline   | <4.6    | ug/L  | 9.1    | 4.6  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 99-09-2   |      |
| 4-Nitroaniline   | <4.4    | ug/L  | 9.1    | 4.4  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 100-01-6  |      |
| Nitrobenzene   | <2.7    | ug/L  | 4.5    | 2.7  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 98-95-3   |      |
| 2-Nitrophenol  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 88-75-5   |      |
| 4-Nitrophenol  | <5.5    | ug/L  | 45.5   | 5.5  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 100-02-7  |      |
| N-Nitrosodimethylamine   | <2.6    | ug/L  | 9.1    | 2.6  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 621-64-7  |      |
| N-Nitrosodiphenylamine   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 86-30-6   |      |
| Pentachlorophenol  | <1.8    | ug/L  | 18.2   | 1.8  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 87-86-5   |      |
| Phenol   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 108-95-2  |      |
| 1,2,4-Trichlorobenzene   | <0.99   | ug/L  | 9.1    | 0.99 | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 120-82-1  |      |
| 2,4,5-Trichlorophenol  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 95-95-4   |      |
| 2,4,6-Trichlorophenol  | <3.6    | ug/L  | 4.5    | 3.6  | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)  | 49      | %     | 42-109 |      | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 4165-60-0 |      |
| Phenol-d5 (S)  | 29      | %     | 11-56  |      | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 4165-62-2 |      |
| 2-Fluorophenol (S)   | 41      | %     | 16-75  |      | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)   | 70      | %     | 45-126 |      | 1  | 06/29/20 10:44 | 06/29/20 19:20 | 118-79-6  |      |
| <b>8260 MSV Low Level</b>  |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis                           |         |       |        |      |    |                |                |           |      |
| Acetone  | <50.0   | ug/L  | 50.0   | 50.0 | 1  |                | 06/30/20 03:43 | 67-64-1   |      |
| Acrylonitrile  | <2.0    | ug/L  | 2.0    | 2.0  | 1  |                | 06/30/20 03:43 | 107-13-1  |      |
| tert-Amylmethyl ether  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 03:43 | 994-05-8  | N2   |
| Benzene  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 03:43 | 71-43-2   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-125**      **Lab ID: 50260974004**      Collected: 06/23/20 12:55      Received: 06/26/20 09:15      Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| Bromobenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:43 | 108-86-1   |      |
| Bromochloromethane                      | <0.22   | ug/L  | 1.0  | 0.22 | 1  |          | 06/30/20 03:43 | 74-97-5    |      |
| Bromodichloromethane                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:43 | 75-27-4    |      |
| Bromoform                               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:43 | 75-25-2    |      |
| Bromomethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 03:43 | 74-83-9    |      |
| 2-Butanone (MEK)                        | <25.0   | ug/L  | 25.0 | 25.0 | 1  |          | 06/30/20 03:43 | 78-93-3    |      |
| tert-Butyl Alcohol                      | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 06/30/20 03:43 | 75-65-0    |      |
| n-Butylbenzene                          | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:43 | 104-51-8   |      |
| sec-Butylbenzene                        | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:43 | 135-98-8   |      |
| tert-Butylbenzene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:43 | 98-06-6    |      |
| Carbon disulfide                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 03:43 | 75-15-0    |      |
| Carbon tetrachloride                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:43 | 56-23-5    |      |
| Chlorobenzene                           | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:43 | 108-90-7   |      |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 03:43 | 75-00-3    |      |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:43 | 67-66-3    |      |
| Chloromethane                           | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 03:43 | 74-87-3    |      |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 06/30/20 03:43 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 06/30/20 03:43 | 96-12-8    |      |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 03:43 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 06/30/20 03:43 | 106-93-4   |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 03:43 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:43 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:43 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:43 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.40   | ug/L  | 100  | 0.40 | 1  |          | 06/30/20 03:43 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 03:43 | 75-71-8    | L1   |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:43 | 75-34-3    |      |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:43 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:43 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:43 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:43 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:43 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 03:43 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 03:43 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 03:43 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 03:43 | 108-20-3   | N2   |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 03:43 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 03:43 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 03:43 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 06/30/20 03:43 | 591-78-6   |      |
| Iodomethane                             | <0.51   | ug/L  | 5.0  | 0.51 | 1  |          | 06/30/20 03:43 | 74-88-4    |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 03:43 | 98-82-8    |      |
| p-Isopropyltoluene                      | <0.11   | ug/L  | 1.0  | 0.11 | 1  |          | 06/30/20 03:43 | 99-87-6    |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 03:43 | 75-09-2    |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0 | 5.0  | 1  |          | 06/30/20 03:43 | 91-57-6    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-125**      **Lab ID: 50260974004**      Collected: 06/23/20 12:55      Received: 06/26/20 09:15      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0   | 50.0 | 1  |          | 06/30/20 03:43 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 03:43 | 1634-04-4   |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 03:43 | 91-20-3     |      |
| n-Propylbenzene                         | <100    | ug/L  | 100    | 100  | 1  |          | 06/30/20 03:43 | 103-65-1    |      |
| Styrene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 03:43 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 03:43 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 03:43 | 79-34-5     |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 03:43 | 127-18-4    |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0   | 90.0 | 1  |          | 06/30/20 03:43 | 109-99-9    | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 03:43 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 03:43 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 03:43 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 03:43 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 03:43 | 79-00-5     |      |
| Trichloroethene                         | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 03:43 | 79-01-6     |      |
| Trichlorofluoromethane                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 06/30/20 03:43 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 03:43 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 03:43 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 06/30/20 03:43 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 06/30/20 03:43 | 108-67-8    |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 03:43 | 75-01-4     |      |
| m&p-Xylene                              | <0.24   | ug/L  | 2.0    | 0.24 | 1  |          | 06/30/20 03:43 | 179601-23-1 |      |
| o-Xylene                                | <0.16   | ug/L  | 1.0    | 0.16 | 1  |          | 06/30/20 03:43 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 102     | %     | 85-116 |      | 1  |          | 06/30/20 03:43 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 102     | %     | 75-120 |      | 1  |          | 06/30/20 03:43 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 109     | %     | 83-111 |      | 1  |          | 06/30/20 03:43 | 2037-26-5   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

Sample: MW-126 Lab ID: 50260974005 Collected: 06/23/20 12:10 Received: 06/26/20 09:15 Matrix: Water

| Parameters   | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|------|------|----|----------------|----------------|-----------|------|
| <b>6010 MET ICP</b>  |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3010<br>Pace Analytical Services - Indianapolis        |         |       |      |      |    |                |                |           |      |
| Arsenic  | <5.0    | ug/L  | 5.0  | 5.0  | 1  | 06/30/20 05:43 | 07/07/20 09:13 | 7440-38-2 |      |
| Barium   | <100    | ug/L  | 100  | 100  | 1  | 06/30/20 05:43 | 07/07/20 09:13 | 7440-39-3 |      |
| Boron  | 590     | ug/L  | 300  | 300  | 1  | 06/30/20 05:43 | 07/07/20 09:13 | 7440-42-8 |      |
| Calcium  | 181000  | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:13 | 7440-70-2 |      |
| Chromium   | <10.0   | ug/L  | 10.0 | 10.0 | 1  | 06/30/20 05:43 | 07/07/20 09:13 | 7440-47-3 |      |
| Cobalt   | <20.0   | ug/L  | 20.0 | 20.0 | 1  | 06/30/20 05:43 | 07/07/20 09:13 | 7440-48-4 |      |
| Copper   | <4.0    | ug/L  | 4.0  | 4.0  | 1  | 06/30/20 05:43 | 07/07/20 09:13 | 7440-50-8 |      |
| Iron   | 1270    | ug/L  | 200  | 200  | 1  | 06/30/20 05:43 | 07/07/20 09:13 | 7439-89-6 |      |
| Magnesium  | 13900   | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:13 | 7439-95-4 |      |
| Manganese  | 251     | ug/L  | 50.0 | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 09:13 | 7439-96-5 |      |
| Molybdenum   | <50.0   | ug/L  | 50.0 | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 09:13 | 7439-98-7 |      |
| Nickel   | <20.0   | ug/L  | 20.0 | 20.0 | 1  | 06/30/20 05:43 | 07/07/20 09:13 | 7440-02-0 |      |
| Potassium  | 36900   | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:13 | 7440-09-7 |      |
| Sodium   | 62300   | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:13 | 7440-23-5 |      |
| Strontium  | <1000   | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:13 | 7440-24-6 |      |
| Zinc   | <50.0   | ug/L  | 50.0 | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 09:13 | 7440-66-6 |      |
| <b>6020 MET ICPMS</b>  |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis       |         |       |      |      |    |                |                |           |      |
| Aluminum   | 376     | ug/L  | 50.0 | 50.0 | 1  | 06/30/20 09:29 | 07/01/20 10:44 | 7429-90-5 |      |
| Antimony   | <2.0    | ug/L  | 2.0  | 2.0  | 1  | 06/30/20 09:29 | 07/01/20 10:44 | 7440-36-0 |      |
| Beryllium  | <1.0    | ug/L  | 1.0  | 1.0  | 1  | 06/30/20 09:29 | 07/01/20 10:44 | 7440-41-7 |      |
| Cadmium  | <1.0    | ug/L  | 1.0  | 1.0  | 1  | 06/30/20 09:29 | 07/01/20 10:44 | 7440-43-9 |      |
| Lead   | <3.0    | ug/L  | 3.0  | 3.0  | 1  | 06/30/20 09:29 | 07/01/20 10:44 | 7439-92-1 |      |
| Selenium   | <5.0    | ug/L  | 5.0  | 5.0  | 1  | 06/30/20 09:29 | 07/01/20 10:44 | 7782-49-2 |      |
| Silver   | <0.20   | ug/L  | 0.25 | 0.20 | 1  | 06/30/20 09:29 | 07/01/20 10:44 | 7440-22-4 |      |
| Thallium   | <2.0    | ug/L  | 2.0  | 2.0  | 1  | 06/30/20 09:29 | 07/01/20 10:44 | 7440-28-0 |      |
| Titanium   | 364     | ug/L  | 5.0  | 0.48 | 5  | 06/30/20 09:29 | 07/02/20 01:34 | 7440-32-6 | N2   |
| Vanadium   | 11.1    | ug/L  | 4.0  | 4.0  | 1  | 06/30/20 09:29 | 07/01/20 10:44 | 7440-62-2 |      |
| <b>7470 Mercury</b>  |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 7470 Preparation Method: EPA 7470<br>Pace Analytical Services - Indianapolis        |         |       |      |      |    |                |                |           |      |
| Mercury  | <0.12   | ug/L  | 0.20 | 0.12 | 1  | 07/01/20 11:50 | 07/01/20 23:14 | 7439-97-6 |      |
| <b>8270 100mL Combo RV</b>   |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis |         |       |      |      |    |                |                |           |      |
| Acenaphthene   | <4.5    | ug/L  | 4.5  | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:12 | 83-32-9   |      |
| Acenaphthylene   | <4.5    | ug/L  | 4.5  | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:12 | 208-96-8  |      |
| Anthracene   | <4.5    | ug/L  | 4.5  | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:12 | 120-12-7  |      |
| Benzo(a)anthracene   | <0.91   | ug/L  | 0.91 | 0.91 | 1  | 06/29/20 10:44 | 06/29/20 19:12 | 56-55-3   |      |
| Benzo(a)pyrene   | <0.18   | ug/L  | 0.18 | 0.18 | 1  | 06/29/20 10:44 | 06/29/20 19:12 | 50-32-8   |      |
| Benzo(b)fluoranthene   | <0.91   | ug/L  | 0.91 | 0.91 | 1  | 06/29/20 10:44 | 06/29/20 19:12 | 205-99-2  |      |
| Benzo(g,h,i)perylene   | <0.91   | ug/L  | 0.91 | 0.91 | 1  | 06/29/20 10:44 | 06/29/20 19:12 | 191-24-2  |      |
| Benzo(k)fluoranthene   | <0.91   | ug/L  | 0.91 | 0.91 | 1  | 06/29/20 10:44 | 06/29/20 19:12 | 207-08-9  |      |
| Chrysene   | <0.91   | ug/L  | 0.91 | 0.91 | 1  | 06/29/20 10:44 | 06/29/20 19:12 | 218-01-9  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-126**      **Lab ID: 50260974005**      Collected: 06/23/20 12:10      Received: 06/26/20 09:15      Matrix: Water

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 100mL Combo RV</b>   |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3510 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                            |         |       |        |      |    |                |                |           |      |
| Dibenz(a,h)anthracene  | <1.8    | ug/L  | 1.8    | 1.8  | 1  | 06/29/20 10:44 | 06/29/20 19:12 | 53-70-3   |      |
| Fluoranthene   | <0.91   | ug/L  | 0.91   | 0.91 | 1  | 06/29/20 10:44 | 06/29/20 19:12 | 206-44-0  |      |
| Fluorene   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:12 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | <1.8    | ug/L  | 1.8    | 1.8  | 1  | 06/29/20 10:44 | 06/29/20 19:12 | 193-39-5  |      |
| 2-Methylnaphthalene  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:12 | 91-57-6   |      |
| Naphthalene  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:12 | 91-20-3   |      |
| Phenanthrene   | <1.8    | ug/L  | 1.8    | 1.8  | 1  | 06/29/20 10:44 | 06/29/20 19:12 | 85-01-8   |      |
| Pyrene   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:12 | 129-00-0  |      |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |           |      |
| 2-Fluorobiphenyl (S)   | 61      | %     | 32-107 |      | 1  | 06/29/20 10:44 | 06/29/20 19:12 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 78      | %     | 29-143 |      | 1  | 06/29/20 10:44 | 06/29/20 19:12 | 1718-51-0 |      |
| <b>8270 SVOC Combo Water</b>                                       |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3510        |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                            |         |       |        |      |    |                |                |           |      |
| 4-Bromophenylphenyl ether  | <3.2    | ug/L  | 9.1    | 3.2  | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 101-55-3  |      |
| Butylbenzylphthalate   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 85-68-7   |      |
| Carbazole  | <9.1    | ug/L  | 9.1    | 9.1  | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 86-74-8   |      |
| 4-Chloro-3-methylphenol  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane   | <3.4    | ug/L  | 9.1    | 3.4  | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 111-91-1  |      |
| bis(2-Chloroethyl) ether   | <2.0    | ug/L  | 4.5    | 2.0  | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                                       | <3.6    | ug/L  | 9.1    | 3.6  | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 108-60-1  |      |
| 2-Chloronaphthalene  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 91-58-7   |      |
| 2-Chlorophenol   | <9.1    | ug/L  | 9.1    | 9.1  | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether   | <2.6    | ug/L  | 9.1    | 2.6  | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 7005-72-3 |      |
| Dibenzofuran   | <3.6    | ug/L  | 4.5    | 3.6  | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 132-64-9  |      |
| 2,4-Dichlorophenol   | <9.1    | ug/L  | 9.1    | 9.1  | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 120-83-2  |      |
| Diethylphthalate   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 84-66-2   |      |
| 2,4-Dimethylphenol   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 105-67-9  |      |
| Dimethylphthalate  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 131-11-3  |      |
| Di-n-butylphthalate  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | <18.2   | ug/L  | 18.2   | 18.2 | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 534-52-1  |      |
| 2,4-Dinitrophenol  | <3.5    | ug/L  | 45.5   | 3.5  | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 51-28-5   |      |
| 2,4-Dinitrotoluene   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 121-14-2  |      |
| 2,6-Dinitrotoluene   | <3.0    | ug/L  | 4.5    | 3.0  | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 606-20-2  |      |
| Di-n-octylphthalate  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 117-84-0  |      |
| 1,2-Diphenylhydrazine  | <3.3    | ug/L  | 9.1    | 3.3  | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 117-81-7  |      |
| Hexachloro-1,3-butadiene   | <2.7    | ug/L  | 4.5    | 2.7  | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 87-68-3   |      |
| Hexachlorobenzene  | <2.4    | ug/L  | 4.5    | 2.4  | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 118-74-1  |      |
| Hexachlorocyclopentadiene  | <22.7   | ug/L  | 22.7   | 22.7 | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 77-47-4   |      |
| Hexachloroethane   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 67-72-1   |      |
| Isophorone   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 78-59-1   |      |
| 2-Methylphenol(o-Cresol)   | <9.1    | ug/L  | 9.1    | 9.1  | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                                       | <18.2   | ug/L  | 18.2   | 18.2 | 1  | 06/29/20 10:44 | 06/29/20 19:36 |           |      |
| 2-Nitroaniline   | <5.3    | ug/L  | 9.1    | 5.3  | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 88-74-4   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-126**      **Lab ID: 50260974005**      Collected: 06/23/20 12:10      Received: 06/26/20 09:15      Matrix: Water

| Parameters   | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC Combo Water</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis |         |       |        |       |    |                |                |           |      |
| 3-Nitroaniline   | <4.6    | ug/L  | 9.1    | 4.6   | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 99-09-2   |      |
| 4-Nitroaniline   | <4.4    | ug/L  | 9.1    | 4.4   | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 100-01-6  |      |
| Nitrobenzene   | <2.7    | ug/L  | 4.5    | 2.7   | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 98-95-3   |      |
| 2-Nitrophenol  | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 88-75-5   |      |
| 4-Nitrophenol  | <5.5    | ug/L  | 45.5   | 5.5   | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 100-02-7  |      |
| N-Nitrosodimethylamine   | <2.6    | ug/L  | 9.1    | 2.6   | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine   | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 621-64-7  |      |
| N-Nitrosodiphenylamine   | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 86-30-6   |      |
| Pentachlorophenol  | <1.8    | ug/L  | 18.2   | 1.8   | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 87-86-5   |      |
| Phenol   | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 108-95-2  |      |
| 1,2,4-Trichlorobenzene   | <0.99   | ug/L  | 9.1    | 0.99  | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 120-82-1  |      |
| 2,4,5-Trichlorophenol  | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 95-95-4   |      |
| 2,4,6-Trichlorophenol  | <3.6    | ug/L  | 4.5    | 3.6   | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| Nitrobenzene-d5 (S)  | 79      | %     | 42-109 |       | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 4165-60-0 |      |
| Phenol-d5 (S)  | 42      | %     | 11-56  |       | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 4165-62-2 |      |
| 2-Fluorophenol (S)   | 50      | %     | 16-75  |       | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)   | 89      | %     | 45-126 |       | 1  | 06/29/20 10:44 | 06/29/20 19:36 | 118-79-6  |      |
| <b>8260C SIM Volatile Organics</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8260C SIM/5030C<br>Pace Analytical Services - Melville                          |         |       |        |       |    |                |                |           |      |
| 1,4-Dioxane (p-Dioxane)  | <0.090  | ug/L  | 0.20   | 0.090 | 1  |                | 07/02/20 16:44 | 123-91-1  |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| 1,2-Dichlorobenzene-d4 (S)   | 87      | %     | 60-140 |       | 1  |                | 07/02/20 16:44 | 2199-69-1 |      |
| 4-Bromofluorobenzene (S)   | 97      | %     | 79-124 |       | 1  |                | 07/02/20 16:44 | 460-00-4  |      |
| <b>8260 MSV Low Level</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis                           |         |       |        |       |    |                |                |           |      |
| Acetone  | <50.0   | ug/L  | 50.0   | 50.0  | 1  |                | 06/30/20 04:16 | 67-64-1   |      |
| Acrylonitrile  | <2.0    | ug/L  | 2.0    | 2.0   | 1  |                | 06/30/20 04:16 | 107-13-1  |      |
| tert-Amylmethyl ether  | <5.0    | ug/L  | 5.0    | 5.0   | 1  |                | 06/30/20 04:16 | 994-05-8  | N2   |
| Benzene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 04:16 | 71-43-2   |      |
| Bromobenzene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 04:16 | 108-86-1  |      |
| Bromochloromethane   | <0.22   | ug/L  | 1.0    | 0.22  | 1  |                | 06/30/20 04:16 | 74-97-5   |      |
| Bromodichloromethane   | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 04:16 | 75-27-4   |      |
| Bromoform  | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 04:16 | 75-25-2   |      |
| Bromomethane   | <5.0    | ug/L  | 5.0    | 5.0   | 1  |                | 06/30/20 04:16 | 74-83-9   |      |
| 2-Butanone (MEK)   | <25.0   | ug/L  | 25.0   | 25.0  | 1  |                | 06/30/20 04:16 | 78-93-3   |      |
| tert-Butyl Alcohol   | <50.0   | ug/L  | 50.0   | 50.0  | 1  |                | 06/30/20 04:16 | 75-65-0   |      |
| n-Butylbenzene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 04:16 | 104-51-8  |      |
| sec-Butylbenzene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 04:16 | 135-98-8  |      |
| tert-Butylbenzene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 04:16 | 98-06-6   |      |
| Carbon disulfide   | <5.0    | ug/L  | 5.0    | 5.0   | 1  |                | 06/30/20 04:16 | 75-15-0   |      |
| Carbon tetrachloride   | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 04:16 | 56-23-5   |      |
| Chlorobenzene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 04:16 | 108-90-7  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-126**      **Lab ID: 50260974005**      Collected: 06/23/20 12:10      Received: 06/26/20 09:15      Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 04:16 | 75-00-3    |      |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:16 | 67-66-3    |      |
| Chloromethane                           | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 04:16 | 74-87-3    |      |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 06/30/20 04:16 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 06/30/20 04:16 | 96-12-8    |      |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 04:16 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 06/30/20 04:16 | 106-93-4   |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 04:16 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:16 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:16 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:16 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.40   | ug/L  | 100  | 0.40 | 1  |          | 06/30/20 04:16 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 04:16 | 75-71-8    | L1   |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:16 | 75-34-3    |      |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:16 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:16 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:16 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:16 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:16 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 04:16 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 04:16 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 04:16 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 04:16 | 108-20-3   | N2   |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:16 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 04:16 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 04:16 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 06/30/20 04:16 | 591-78-6   |      |
| Iodomethane                             | <0.51   | ug/L  | 5.0  | 0.51 | 1  |          | 06/30/20 04:16 | 74-88-4    |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 04:16 | 98-82-8    |      |
| p-Isopropyltoluene                      | <0.11   | ug/L  | 1.0  | 0.11 | 1  |          | 06/30/20 04:16 | 99-87-6    |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 04:16 | 75-09-2    |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0 | 5.0  | 1  |          | 06/30/20 04:16 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 06/30/20 04:16 | 108-10-1   |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 04:16 | 1634-04-4  |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 04:16 | 91-20-3    |      |
| n-Propylbenzene                         | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 04:16 | 103-65-1   |      |
| Styrene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:16 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:16 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:16 | 79-34-5    |      |
| Tetrachloroethene                       | 6.0     | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:16 | 127-18-4   |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0 | 90.0 | 1  |          | 06/30/20 04:16 | 109-99-9   | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:16 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 04:16 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 04:16 | 120-82-1   |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:16 | 71-55-6    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-126**      **Lab ID: 50260974005**      Collected: 06/23/20 12:10      Received: 06/26/20 09:15      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 04:16 | 79-00-5     |      |
| Trichloroethene                         | 1.1     | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 04:16 | 79-01-6     |      |
| Trichlorofluoromethane                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 06/30/20 04:16 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 04:16 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 04:16 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 06/30/20 04:16 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 06/30/20 04:16 | 108-67-8    |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 04:16 | 75-01-4     |      |
| m&p-Xylene                              | <0.24   | ug/L  | 2.0    | 0.24 | 1  |          | 06/30/20 04:16 | 179601-23-1 |      |
| o-Xylene                                | <0.16   | ug/L  | 1.0    | 0.16 | 1  |          | 06/30/20 04:16 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 106     | %     | 85-116 |      | 1  |          | 06/30/20 04:16 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 100     | %     | 75-120 |      | 1  |          | 06/30/20 04:16 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 111     | %     | 83-111 |      | 1  |          | 06/30/20 04:16 | 2037-26-5   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-130**      **Lab ID: 50260974006**      Collected: 06/23/20 15:10      Received: 06/26/20 09:15      Matrix: Water

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|------------|------|
| <b>8015M Alcohols in water</b>   |         |       |        |      |    |                |                |            |      |
| Analytical Method: EPA 8015 Alcohol-Glycol<br>Pace Analytical Services - Indianapolis                |         |       |        |      |    |                |                |            |      |
| n-Butanol  | <800    | ug/L  | 5000   | 800  | 1  |                | 06/29/20 13:22 | 71-36-3    |      |
| Ethanol  | <1000   | ug/L  | 5000   | 1000 | 1  |                | 06/29/20 13:22 | 64-17-5    |      |
| Methanol   | <400    | ug/L  | 5000   | 400  | 1  |                | 06/29/20 13:22 | 67-56-1    |      |
| <b>8082 GCS PCB RV Waters</b>  |         |       |        |      |    |                |                |            |      |
| Analytical Method: EPA 8082 Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis  |         |       |        |      |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)  | <0.18   | ug/L  | 0.18   | 0.18 | 1  | 06/30/20 21:50 | 07/02/20 04:21 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)  | <0.18   | ug/L  | 0.18   | 0.18 | 1  | 06/30/20 21:50 | 07/02/20 04:21 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)  | <0.18   | ug/L  | 0.18   | 0.18 | 1  | 06/30/20 21:50 | 07/02/20 04:21 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)  | <0.18   | ug/L  | 0.18   | 0.18 | 1  | 06/30/20 21:50 | 07/02/20 04:21 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)  | <0.18   | ug/L  | 0.18   | 0.18 | 1  | 06/30/20 21:50 | 07/02/20 04:21 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)  | <0.18   | ug/L  | 0.18   | 0.18 | 1  | 06/30/20 21:50 | 07/02/20 04:21 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)  | <0.18   | ug/L  | 0.18   | 0.18 | 1  | 06/30/20 21:50 | 07/02/20 04:21 | 11096-82-5 |      |
| PCB-1262 (Aroclor 1262)  | <0.18   | ug/L  | 0.18   | 0.18 | 1  | 06/30/20 21:50 | 07/02/20 04:21 | 37324-23-5 | N2   |
| PCB-1268 (Aroclor 1268)  | <0.18   | ug/L  | 0.18   | 0.18 | 1  | 06/30/20 21:50 | 07/02/20 04:21 | 11100-14-4 | N2   |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |            |      |
| Tetrachloro-m-xylene (S)   | 52      | %     | 10-144 |      | 1  | 06/30/20 21:50 | 07/02/20 04:21 | 877-09-8   |      |
| <b>6010 MET ICP</b>  |         |       |        |      |    |                |                |            |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3010<br>Pace Analytical Services - Indianapolis  |         |       |        |      |    |                |                |            |      |
| Arsenic  | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 06/30/20 05:43 | 07/07/20 09:15 | 7440-38-2  |      |
| Barium   | <100    | ug/L  | 100    | 100  | 1  | 06/30/20 05:43 | 07/07/20 09:15 | 7440-39-3  |      |
| Boron  | <300    | ug/L  | 300    | 300  | 1  | 06/30/20 05:43 | 07/07/20 09:15 | 7440-42-8  |      |
| Calcium  | 102000  | ug/L  | 1000   | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:15 | 7440-70-2  |      |
| Chromium   | <10.0   | ug/L  | 10.0   | 10.0 | 1  | 06/30/20 05:43 | 07/07/20 09:15 | 7440-47-3  |      |
| Cobalt   | <20.0   | ug/L  | 20.0   | 20.0 | 1  | 06/30/20 05:43 | 07/07/20 09:15 | 7440-48-4  |      |
| Copper   | <4.0    | ug/L  | 4.0    | 4.0  | 1  | 06/30/20 05:43 | 07/07/20 09:15 | 7440-50-8  |      |
| Iron   | 710     | ug/L  | 200    | 200  | 1  | 06/30/20 05:43 | 07/07/20 09:15 | 7439-89-6  |      |
| Magnesium  | 17000   | ug/L  | 1000   | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:15 | 7439-95-4  |      |
| Manganese  | 273     | ug/L  | 50.0   | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 09:15 | 7439-96-5  |      |
| Molybdenum   | <50.0   | ug/L  | 50.0   | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 09:15 | 7439-98-7  |      |
| Nickel   | <20.0   | ug/L  | 20.0   | 20.0 | 1  | 06/30/20 05:43 | 07/07/20 09:15 | 7440-02-0  |      |
| Potassium  | 7410    | ug/L  | 1000   | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:15 | 7440-09-7  |      |
| Sodium   | 36000   | ug/L  | 1000   | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:15 | 7440-23-5  |      |
| Strontium  | <1000   | ug/L  | 1000   | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:15 | 7440-24-6  |      |
| Zinc   | <50.0   | ug/L  | 50.0   | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 09:15 | 7440-66-6  |      |
| <b>6020 MET ICPMS</b>  |         |       |        |      |    |                |                |            |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis |         |       |        |      |    |                |                |            |      |
| Aluminum   | 462     | ug/L  | 50.0   | 50.0 | 1  | 06/30/20 09:29 | 07/01/20 10:49 | 7429-90-5  |      |
| Antimony   | <2.0    | ug/L  | 2.0    | 2.0  | 1  | 06/30/20 09:29 | 07/01/20 10:49 | 7440-36-0  |      |
| Beryllium  | <1.0    | ug/L  | 1.0    | 1.0  | 1  | 06/30/20 09:29 | 07/01/20 10:49 | 7440-41-7  |      |
| Cadmium  | <1.0    | ug/L  | 1.0    | 1.0  | 1  | 06/30/20 09:29 | 07/01/20 10:49 | 7440-43-9  |      |
| Lead   | 3.2     | ug/L  | 3.0    | 3.0  | 1  | 06/30/20 09:29 | 07/01/20 10:49 | 7439-92-1  |      |
| Selenium   | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 06/30/20 09:29 | 07/01/20 10:49 | 7782-49-2  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-130**      **Lab ID: 50260974006**      Collected: 06/23/20 15:10      Received: 06/26/20 09:15      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>6020 MET ICPMS</b>   |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 6020    Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis       |         |       |        |      |    |                |                |           |      |
| Silver  | <0.20   | ug/L  | 0.25   | 0.20 | 1  | 06/30/20 09:29 | 07/01/20 10:49 | 7440-22-4 |      |
| Thallium  | <2.0    | ug/L  | 2.0    | 2.0  | 1  | 06/30/20 09:29 | 07/01/20 10:49 | 7440-28-0 |      |
| Titanium  | 208     | ug/L  | 2.0    | 0.19 | 2  | 06/30/20 09:29 | 07/02/20 01:39 | 7440-32-6 | N2   |
| Vanadium  | <4.0    | ug/L  | 4.0    | 4.0  | 1  | 06/30/20 09:29 | 07/01/20 10:49 | 7440-62-2 |      |
| <b>7470 Mercury</b>   |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 7470    Preparation Method: EPA 7470<br>Pace Analytical Services - Indianapolis        |         |       |        |      |    |                |                |           |      |
| Mercury   | <0.12   | ug/L  | 0.20   | 0.12 | 1  | 07/01/20 11:50 | 07/01/20 23:20 | 7439-97-6 |      |
| <b>8270 100mL Combo RV</b>  |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis |         |       |        |      |    |                |                |           |      |
| Acenaphthene  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:24 | 83-32-9   |      |
| Acenaphthylene  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:24 | 208-96-8  |      |
| Anthracene  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:24 | 120-12-7  |      |
| Benzo(a)anthracene  | <0.91   | ug/L  | 0.91   | 0.91 | 1  | 06/29/20 10:44 | 06/29/20 19:24 | 56-55-3   |      |
| Benzo(a)pyrene  | <0.18   | ug/L  | 0.18   | 0.18 | 1  | 06/29/20 10:44 | 06/29/20 19:24 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <0.91   | ug/L  | 0.91   | 0.91 | 1  | 06/29/20 10:44 | 06/29/20 19:24 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <0.91   | ug/L  | 0.91   | 0.91 | 1  | 06/29/20 10:44 | 06/29/20 19:24 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <0.91   | ug/L  | 0.91   | 0.91 | 1  | 06/29/20 10:44 | 06/29/20 19:24 | 207-08-9  |      |
| Chrysene  | <0.91   | ug/L  | 0.91   | 0.91 | 1  | 06/29/20 10:44 | 06/29/20 19:24 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | <1.8    | ug/L  | 1.8    | 1.8  | 1  | 06/29/20 10:44 | 06/29/20 19:24 | 53-70-3   |      |
| Fluoranthene  | <0.91   | ug/L  | 0.91   | 0.91 | 1  | 06/29/20 10:44 | 06/29/20 19:24 | 206-44-0  |      |
| Fluorene  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:24 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene  | <1.8    | ug/L  | 1.8    | 1.8  | 1  | 06/29/20 10:44 | 06/29/20 19:24 | 193-39-5  |      |
| 2-Methylnaphthalene   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:24 | 91-57-6   |      |
| Naphthalene   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:24 | 91-20-3   |      |
| Phenanthrene  | <1.8    | ug/L  | 1.8    | 1.8  | 1  | 06/29/20 10:44 | 06/29/20 19:24 | 85-01-8   |      |
| Pyrene  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:24 | 129-00-0  |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| 2-Fluorobiphenyl (S)  | 33      | %     | 32-107 |      | 1  | 06/29/20 10:44 | 06/29/20 19:24 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 68      | %     | 29-143 |      | 1  | 06/29/20 10:44 | 06/29/20 19:24 | 1718-51-0 |      |
| <b>8270 SVOC Combo Water</b>  |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis        |         |       |        |      |    |                |                |           |      |
| 4-Bromophenylphenyl ether   | <3.2    | ug/L  | 9.1    | 3.2  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 101-55-3  |      |
| Butylbenzylphthalate  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 85-68-7   |      |
| Carbazole   | <9.1    | ug/L  | 9.1    | 9.1  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 86-74-8   |      |
| 4-Chloro-3-methylphenol   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane  | <3.4    | ug/L  | 9.1    | 3.4  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 111-91-1  |      |
| bis(2-Chloroethyl) ether  | <2.0    | ug/L  | 4.5    | 2.0  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether  | <3.6    | ug/L  | 9.1    | 3.6  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 108-60-1  |      |
| 2-Chloronaphthalene   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 91-58-7   |      |
| 2-Chlorophenol  | <9.1    | ug/L  | 9.1    | 9.1  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether  | <2.6    | ug/L  | 9.1    | 2.6  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 7005-72-3 |      |
| Dibenzofuran  | <3.6    | ug/L  | 4.5    | 3.6  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 132-64-9  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260974

**Sample: MW-130**      **Lab ID: 50260974006**      Collected: 06/23/20 15:10      Received: 06/26/20 09:15      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC Combo Water</b>                                |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3510 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| 2,4-Dichlorophenol  | <9.1    | ug/L  | 9.1    | 9.1  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 120-83-2  |      |
| Diethylphthalate  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 84-66-2   |      |
| 2,4-Dimethylphenol  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 105-67-9  |      |
| Dimethylphthalate   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 131-11-3  |      |
| Di-n-butylphthalate   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol                                  | <18.2   | ug/L  | 18.2   | 18.2 | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 534-52-1  |      |
| 2,4-Dinitrophenol   | <3.5    | ug/L  | 45.5   | 3.5  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 51-28-5   |      |
| 2,4-Dinitrotoluene  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 121-14-2  |      |
| 2,6-Dinitrotoluene  | <3.0    | ug/L  | 4.5    | 3.0  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 606-20-2  |      |
| Di-n-octylphthalate   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 117-84-0  |      |
| 1,2-Diphenylhydrazine                                       | <3.3    | ug/L  | 9.1    | 3.3  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate                                  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 117-81-7  |      |
| Hexachloro-1,3-butadiene                                    | <2.7    | ug/L  | 4.5    | 2.7  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 87-68-3   |      |
| Hexachlorobenzene   | <2.4    | ug/L  | 4.5    | 2.4  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 118-74-1  |      |
| Hexachlorocyclopentadiene                                   | <22.7   | ug/L  | 22.7   | 22.7 | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 77-47-4   |      |
| Hexachloroethane  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 67-72-1   |      |
| Isophorone  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 78-59-1   |      |
| 2-Methylphenol(o-Cresol)                                    | <9.1    | ug/L  | 9.1    | 9.1  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                                | <18.2   | ug/L  | 18.2   | 18.2 | 1  | 06/29/20 10:44 | 06/29/20 19:52 |           |      |
| 2-Nitroaniline  | <5.3    | ug/L  | 9.1    | 5.3  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 88-74-4   |      |
| 3-Nitroaniline  | <4.6    | ug/L  | 9.1    | 4.6  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 99-09-2   |      |
| 4-Nitroaniline  | <4.4    | ug/L  | 9.1    | 4.4  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 100-01-6  |      |
| Nitrobenzene  | <2.7    | ug/L  | 4.5    | 2.7  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 98-95-3   |      |
| 2-Nitrophenol   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 88-75-5   |      |
| 4-Nitrophenol   | <5.5    | ug/L  | 45.5   | 5.5  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 100-02-7  |      |
| N-Nitrosodimethylamine                                      | <2.6    | ug/L  | 9.1    | 2.6  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                                  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                      | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 86-30-6   |      |
| Pentachlorophenol   | <1.8    | ug/L  | 18.2   | 1.8  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 87-86-5   |      |
| Phenol  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 108-95-2  |      |
| 1,2,4-Trichlorobenzene                                      | <0.99   | ug/L  | 9.1    | 0.99 | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                       | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                       | <3.6    | ug/L  | 4.5    | 3.6  | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 88-06-2   |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)   | 34      | %     | 42-109 |      | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 4165-60-0 | S0   |
| Phenol-d5 (S)   | 21      | %     | 11-56  |      | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 4165-62-2 |      |
| 2-Fluorophenol (S)  | 26      | %     | 16-75  |      | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                    | 51      | %     | 45-126 |      | 1  | 06/29/20 10:44 | 06/29/20 19:52 | 118-79-6  |      |
| <b>8260 MSV Low Level</b>                                   |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 5030B/8260                           |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| Acetone   | <50.0   | ug/L  | 50.0   | 50.0 | 1  |                | 06/30/20 04:49 | 67-64-1   |      |
| Acrylonitrile   | <2.0    | ug/L  | 2.0    | 2.0  | 1  |                | 06/30/20 04:49 | 107-13-1  |      |
| tert-Amylmethyl ether                                       | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 04:49 | 994-05-8  | N2   |
| Benzene   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 04:49 | 71-43-2   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-130**      **Lab ID: 50260974006**      Collected: 06/23/20 15:10      Received: 06/26/20 09:15      Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| Bromobenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:49 | 108-86-1   |      |
| Bromochloromethane                      | <0.22   | ug/L  | 1.0  | 0.22 | 1  |          | 06/30/20 04:49 | 74-97-5    |      |
| Bromodichloromethane                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:49 | 75-27-4    |      |
| Bromoform                               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:49 | 75-25-2    |      |
| Bromomethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 04:49 | 74-83-9    |      |
| 2-Butanone (MEK)                        | <25.0   | ug/L  | 25.0 | 25.0 | 1  |          | 06/30/20 04:49 | 78-93-3    |      |
| tert-Butyl Alcohol                      | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 06/30/20 04:49 | 75-65-0    |      |
| n-Butylbenzene                          | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:49 | 104-51-8   |      |
| sec-Butylbenzene                        | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:49 | 135-98-8   |      |
| tert-Butylbenzene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:49 | 98-06-6    |      |
| Carbon disulfide                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 04:49 | 75-15-0    |      |
| Carbon tetrachloride                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:49 | 56-23-5    |      |
| Chlorobenzene                           | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:49 | 108-90-7   |      |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 04:49 | 75-00-3    |      |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:49 | 67-66-3    |      |
| Chloromethane                           | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 04:49 | 74-87-3    |      |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 06/30/20 04:49 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 06/30/20 04:49 | 96-12-8    |      |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 04:49 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 06/30/20 04:49 | 106-93-4   |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 04:49 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:49 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:49 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:49 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.40   | ug/L  | 100  | 0.40 | 1  |          | 06/30/20 04:49 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 04:49 | 75-71-8    | L1   |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:49 | 75-34-3    |      |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:49 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:49 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:49 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:49 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:49 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 04:49 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 04:49 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 04:49 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 04:49 | 108-20-3   | N2   |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 04:49 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 04:49 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 04:49 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 06/30/20 04:49 | 591-78-6   |      |
| Iodomethane                             | <0.51   | ug/L  | 5.0  | 0.51 | 1  |          | 06/30/20 04:49 | 74-88-4    |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 04:49 | 98-82-8    |      |
| p-Isopropyltoluene                      | <0.11   | ug/L  | 1.0  | 0.11 | 1  |          | 06/30/20 04:49 | 99-87-6    |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 04:49 | 75-09-2    |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0 | 5.0  | 1  |          | 06/30/20 04:49 | 91-57-6    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-130**      **Lab ID: 50260974006**      Collected: 06/23/20 15:10      Received: 06/26/20 09:15      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0   | 50.0 | 1  |          | 06/30/20 04:49 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 04:49 | 1634-04-4   |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 04:49 | 91-20-3     |      |
| n-Propylbenzene                         | <100    | ug/L  | 100    | 100  | 1  |          | 06/30/20 04:49 | 103-65-1    |      |
| Styrene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 04:49 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 04:49 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 04:49 | 79-34-5     |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 04:49 | 127-18-4    |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0   | 90.0 | 1  |          | 06/30/20 04:49 | 109-99-9    | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 04:49 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 04:49 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 04:49 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 04:49 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 04:49 | 79-00-5     |      |
| Trichloroethene                         | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 04:49 | 79-01-6     |      |
| Trichlorofluoromethane                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 06/30/20 04:49 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 04:49 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 04:49 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 06/30/20 04:49 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 06/30/20 04:49 | 108-67-8    |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 04:49 | 75-01-4     |      |
| m&p-Xylene                              | <0.24   | ug/L  | 2.0    | 0.24 | 1  |          | 06/30/20 04:49 | 179601-23-1 |      |
| o-Xylene                                | <0.16   | ug/L  | 1.0    | 0.16 | 1  |          | 06/30/20 04:49 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 99      | %     | 85-116 |      | 1  |          | 06/30/20 04:49 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 105     | %     | 75-120 |      | 1  |          | 06/30/20 04:49 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 103     | %     | 83-111 |      | 1  |          | 06/30/20 04:49 | 2037-26-5   |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260974

**Sample: MW-122**      **Lab ID: 50260974007**      Collected: 06/24/20 13:45      Received: 06/26/20 09:15      Matrix: Water

| Parameters  | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|------|------|----|----------------|----------------|-----------|------|
| <b>6010 MET ICP</b>   |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 6010    Preparation Method: EPA 3010<br>Pace Analytical Services - Indianapolis        |         |       |      |      |    |                |                |           |      |
| Arsenic   | <5.0    | ug/L  | 5.0  | 5.0  | 1  | 06/30/20 05:43 | 07/07/20 09:18 | 7440-38-2 |      |
| Barium  | <100    | ug/L  | 100  | 100  | 1  | 06/30/20 05:43 | 07/07/20 09:18 | 7440-39-3 |      |
| Boron   | <300    | ug/L  | 300  | 300  | 1  | 06/30/20 05:43 | 07/07/20 09:18 | 7440-42-8 |      |
| Calcium   | 106000  | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:18 | 7440-70-2 |      |
| Chromium  | <10.0   | ug/L  | 10.0 | 10.0 | 1  | 06/30/20 05:43 | 07/07/20 09:18 | 7440-47-3 |      |
| Cobalt  | <20.0   | ug/L  | 20.0 | 20.0 | 1  | 06/30/20 05:43 | 07/07/20 09:18 | 7440-48-4 |      |
| Copper  | 9.2     | ug/L  | 4.0  | 4.0  | 1  | 06/30/20 05:43 | 07/07/20 09:18 | 7440-50-8 |      |
| Iron  | 1940    | ug/L  | 200  | 200  | 1  | 06/30/20 05:43 | 07/07/20 09:18 | 7439-89-6 |      |
| Magnesium   | 16800   | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:18 | 7439-95-4 |      |
| Manganese   | <50.0   | ug/L  | 50.0 | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 09:18 | 7439-96-5 |      |
| Molybdenum  | <50.0   | ug/L  | 50.0 | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 09:18 | 7439-98-7 |      |
| Nickel  | <20.0   | ug/L  | 20.0 | 20.0 | 1  | 06/30/20 05:43 | 07/07/20 09:18 | 7440-02-0 |      |
| Potassium   | 15700   | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:18 | 7440-09-7 |      |
| Sodium  | 14100   | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:18 | 7440-23-5 |      |
| Strontium   | <1000   | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:18 | 7440-24-6 |      |
| Zinc  | <50.0   | ug/L  | 50.0 | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 09:18 | 7440-66-6 |      |
| <b>6020 MET ICPMS</b>   |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 6020    Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis       |         |       |      |      |    |                |                |           |      |
| Aluminum  | 1130    | ug/L  | 100  | 100  | 2  | 06/30/20 09:29 | 07/02/20 01:44 | 7429-90-5 |      |
| Antimony  | <2.0    | ug/L  | 2.0  | 2.0  | 1  | 06/30/20 09:29 | 07/01/20 11:02 | 7440-36-0 |      |
| Beryllium   | <1.0    | ug/L  | 1.0  | 1.0  | 1  | 06/30/20 09:29 | 07/01/20 11:02 | 7440-41-7 |      |
| Cadmium   | <1.0    | ug/L  | 1.0  | 1.0  | 1  | 06/30/20 09:29 | 07/01/20 11:02 | 7440-43-9 |      |
| Lead  | <3.0    | ug/L  | 3.0  | 3.0  | 1  | 06/30/20 09:29 | 07/01/20 11:02 | 7439-92-1 |      |
| Selenium  | <5.0    | ug/L  | 5.0  | 5.0  | 1  | 06/30/20 09:29 | 07/01/20 11:02 | 7782-49-2 |      |
| Silver  | <0.20   | ug/L  | 0.25 | 0.20 | 1  | 06/30/20 09:29 | 07/01/20 11:02 | 7440-22-4 |      |
| Thallium  | <2.0    | ug/L  | 2.0  | 2.0  | 1  | 06/30/20 09:29 | 07/01/20 11:02 | 7440-28-0 |      |
| Titanium  | 239     | ug/L  | 2.0  | 0.19 | 2  | 06/30/20 09:29 | 07/02/20 01:44 | 7440-32-6 | N2   |
| Vanadium  | 10.6    | ug/L  | 4.0  | 4.0  | 1  | 06/30/20 09:29 | 07/01/20 11:02 | 7440-62-2 |      |
| <b>7470 Mercury</b>   |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 7470    Preparation Method: EPA 7470<br>Pace Analytical Services - Indianapolis        |         |       |      |      |    |                |                |           |      |
| Mercury   | 0.15J   | ug/L  | 0.20 | 0.12 | 1  | 07/01/20 11:50 | 07/01/20 23:22 | 7439-97-6 |      |
| <b>8270 100mL Combo RV</b>  |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis |         |       |      |      |    |                |                |           |      |
| Acenaphthene  | <4.8    | ug/L  | 4.8  | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 19:47 | 83-32-9   |      |
| Acenaphthylene  | <4.8    | ug/L  | 4.8  | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 19:47 | 208-96-8  |      |
| Anthracene  | <4.8    | ug/L  | 4.8  | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 19:47 | 120-12-7  |      |
| Benzo(a)anthracene  | <0.95   | ug/L  | 0.95 | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 19:47 | 56-55-3   |      |
| Benzo(a)pyrene  | <0.19   | ug/L  | 0.19 | 0.19 | 1  | 06/29/20 10:44 | 06/29/20 19:47 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <0.95   | ug/L  | 0.95 | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 19:47 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <0.95   | ug/L  | 0.95 | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 19:47 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <0.95   | ug/L  | 0.95 | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 19:47 | 207-08-9  |      |
| Chrysene  | <0.95   | ug/L  | 0.95 | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 19:47 | 218-01-9  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-122**      **Lab ID: 50260974007**      Collected: 06/24/20 13:45      Received: 06/26/20 09:15      Matrix: Water

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 100mL Combo RV</b>   |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3510 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                            |         |       |        |      |    |                |                |           |      |
| Dibenz(a,h)anthracene  | <1.9    | ug/L  | 1.9    | 1.9  | 1  | 06/29/20 10:44 | 06/29/20 19:47 | 53-70-3   |      |
| Fluoranthene   | <0.95   | ug/L  | 0.95   | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 19:47 | 206-44-0  |      |
| Fluorene   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 19:47 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | <1.9    | ug/L  | 1.9    | 1.9  | 1  | 06/29/20 10:44 | 06/29/20 19:47 | 193-39-5  |      |
| 2-Methylnaphthalene  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 19:47 | 91-57-6   |      |
| Naphthalene  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 19:47 | 91-20-3   |      |
| Phenanthrene   | <1.9    | ug/L  | 1.9    | 1.9  | 1  | 06/29/20 10:44 | 06/29/20 19:47 | 85-01-8   |      |
| Pyrene   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 19:47 | 129-00-0  |      |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |           |      |
| 2-Fluorobiphenyl (S)   | 46      | %     | 32-107 |      | 1  | 06/29/20 10:44 | 06/29/20 19:47 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 77      | %     | 29-143 |      | 1  | 06/29/20 10:44 | 06/29/20 19:47 | 1718-51-0 |      |
| <b>8270 SVOC Combo Water</b>                                       |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3510        |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                            |         |       |        |      |    |                |                |           |      |
| 4-Bromophenylphenyl ether  | <3.4    | ug/L  | 9.5    | 3.4  | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 101-55-3  |      |
| Butylbenzylphthalate   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 85-68-7   |      |
| Carbazole  | <9.5    | ug/L  | 9.5    | 9.5  | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 86-74-8   |      |
| 4-Chloro-3-methylphenol  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane   | <3.6    | ug/L  | 9.5    | 3.6  | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 111-91-1  |      |
| bis(2-Chloroethyl) ether   | <2.1    | ug/L  | 4.8    | 2.1  | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                                       | <3.8    | ug/L  | 9.5    | 3.8  | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 108-60-1  |      |
| 2-Chloronaphthalene  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 91-58-7   |      |
| 2-Chlorophenol   | <9.5    | ug/L  | 9.5    | 9.5  | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether   | <2.7    | ug/L  | 9.5    | 2.7  | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 7005-72-3 |      |
| Dibenzofuran   | <3.8    | ug/L  | 4.8    | 3.8  | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 132-64-9  |      |
| 2,4-Dichlorophenol   | <9.5    | ug/L  | 9.5    | 9.5  | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 120-83-2  |      |
| Diethylphthalate   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 84-66-2   |      |
| 2,4-Dimethylphenol   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 105-67-9  |      |
| Dimethylphthalate  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 131-11-3  |      |
| Di-n-butylphthalate  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | <19.0   | ug/L  | 19.0   | 19.0 | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 534-52-1  |      |
| 2,4-Dinitrophenol  | <3.7    | ug/L  | 47.6   | 3.7  | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 51-28-5   |      |
| 2,4-Dinitrotoluene   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 121-14-2  |      |
| 2,6-Dinitrotoluene   | <3.2    | ug/L  | 4.8    | 3.2  | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 606-20-2  |      |
| Di-n-octylphthalate  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 117-84-0  |      |
| 1,2-Diphenylhydrazine  | <3.5    | ug/L  | 9.5    | 3.5  | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 117-81-7  |      |
| Hexachloro-1,3-butadiene   | <2.9    | ug/L  | 4.8    | 2.9  | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 87-68-3   |      |
| Hexachlorobenzene  | <2.6    | ug/L  | 4.8    | 2.6  | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 118-74-1  |      |
| Hexachlorocyclopentadiene  | <23.8   | ug/L  | 23.8   | 23.8 | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 77-47-4   |      |
| Hexachloroethane   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 67-72-1   |      |
| Isophorone   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 78-59-1   |      |
| 2-Methylphenol(o-Cresol)   | <9.5    | ug/L  | 9.5    | 9.5  | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                                       | <19.0   | ug/L  | 19.0   | 19.0 | 1  | 06/29/20 10:44 | 06/29/20 20:25 |           |      |
| 2-Nitroaniline   | <5.5    | ug/L  | 9.5    | 5.5  | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 88-74-4   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-122**      **Lab ID: 50260974007**      Collected: 06/24/20 13:45      Received: 06/26/20 09:15      Matrix: Water

| Parameters   | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC Combo Water</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis |         |       |        |       |    |                |                |           |      |
| 3-Nitroaniline   | <4.8    | ug/L  | 9.5    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 99-09-2   |      |
| 4-Nitroaniline   | <4.6    | ug/L  | 9.5    | 4.6   | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 100-01-6  |      |
| Nitrobenzene   | <2.9    | ug/L  | 4.8    | 2.9   | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 98-95-3   |      |
| 2-Nitrophenol  | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 88-75-5   |      |
| 4-Nitrophenol  | <5.8    | ug/L  | 47.6   | 5.8   | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 100-02-7  |      |
| N-Nitrosodimethylamine   | <2.7    | ug/L  | 9.5    | 2.7   | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine   | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 621-64-7  |      |
| N-Nitrosodiphenylamine   | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 86-30-6   |      |
| Pentachlorophenol  | <1.8    | ug/L  | 19.0   | 1.8   | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 87-86-5   |      |
| Phenol   | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 108-95-2  |      |
| 1,2,4-Trichlorobenzene   | <1.0    | ug/L  | 9.5    | 1.0   | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 120-82-1  |      |
| 2,4,5-Trichlorophenol  | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 95-95-4   |      |
| 2,4,6-Trichlorophenol  | <3.8    | ug/L  | 4.8    | 3.8   | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| Nitrobenzene-d5 (S)  | 45      | %     | 42-109 |       | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 4165-60-0 |      |
| Phenol-d5 (S)  | 30      | %     | 11-56  |       | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 4165-62-2 |      |
| 2-Fluorophenol (S)   | 37      | %     | 16-75  |       | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)   | 70      | %     | 45-126 |       | 1  | 06/29/20 10:44 | 06/29/20 20:25 | 118-79-6  |      |
| <b>8260C SIM Volatile Organics</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8260C SIM/5030C<br>Pace Analytical Services - Melville                          |         |       |        |       |    |                |                |           |      |
| 1,4-Dioxane (p-Dioxane)  | <0.090  | ug/L  | 0.20   | 0.090 | 1  |                | 07/02/20 17:10 | 123-91-1  |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| 1,2-Dichlorobenzene-d4 (S)   | 68      | %     | 60-140 |       | 1  |                | 07/02/20 17:10 | 2199-69-1 |      |
| 4-Bromofluorobenzene (S)   | 103     | %     | 79-124 |       | 1  |                | 07/02/20 17:10 | 460-00-4  |      |
| <b>8260 MSV Low Level</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis                           |         |       |        |       |    |                |                |           |      |
| Acetone  | <50.0   | ug/L  | 50.0   | 50.0  | 1  |                | 06/30/20 05:22 | 67-64-1   |      |
| Acrylonitrile  | <2.0    | ug/L  | 2.0    | 2.0   | 1  |                | 06/30/20 05:22 | 107-13-1  |      |
| tert-Amylmethyl ether  | <5.0    | ug/L  | 5.0    | 5.0   | 1  |                | 06/30/20 05:22 | 994-05-8  | N2   |
| Benzene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 05:22 | 71-43-2   |      |
| Bromobenzene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 05:22 | 108-86-1  |      |
| Bromochloromethane   | <0.22   | ug/L  | 1.0    | 0.22  | 1  |                | 06/30/20 05:22 | 74-97-5   |      |
| Bromodichloromethane   | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 05:22 | 75-27-4   |      |
| Bromoform  | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 05:22 | 75-25-2   |      |
| Bromomethane   | <5.0    | ug/L  | 5.0    | 5.0   | 1  |                | 06/30/20 05:22 | 74-83-9   |      |
| 2-Butanone (MEK)   | <25.0   | ug/L  | 25.0   | 25.0  | 1  |                | 06/30/20 05:22 | 78-93-3   |      |
| tert-Butyl Alcohol   | <50.0   | ug/L  | 50.0   | 50.0  | 1  |                | 06/30/20 05:22 | 75-65-0   |      |
| n-Butylbenzene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 05:22 | 104-51-8  |      |
| sec-Butylbenzene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 05:22 | 135-98-8  |      |
| tert-Butylbenzene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 05:22 | 98-06-6   |      |
| Carbon disulfide   | <5.0    | ug/L  | 5.0    | 5.0   | 1  |                | 06/30/20 05:22 | 75-15-0   |      |
| Carbon tetrachloride   | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 05:22 | 56-23-5   |      |
| Chlorobenzene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 05:22 | 108-90-7  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-122**      **Lab ID: 50260974007**      Collected: 06/24/20 13:45      Received: 06/26/20 09:15      Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 05:22 | 75-00-3    |      |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:22 | 67-66-3    |      |
| Chloromethane                           | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 05:22 | 74-87-3    |      |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 06/30/20 05:22 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 06/30/20 05:22 | 96-12-8    |      |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 05:22 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 06/30/20 05:22 | 106-93-4   |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 05:22 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:22 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:22 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:22 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.40   | ug/L  | 100  | 0.40 | 1  |          | 06/30/20 05:22 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 05:22 | 75-71-8    | L1   |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:22 | 75-34-3    |      |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:22 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:22 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:22 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:22 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:22 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 05:22 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 05:22 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 05:22 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 05:22 | 108-20-3   | N2   |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:22 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 05:22 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 05:22 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 06/30/20 05:22 | 591-78-6   |      |
| Iodomethane                             | <0.51   | ug/L  | 5.0  | 0.51 | 1  |          | 06/30/20 05:22 | 74-88-4    |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 05:22 | 98-82-8    |      |
| p-Isopropyltoluene                      | <0.11   | ug/L  | 1.0  | 0.11 | 1  |          | 06/30/20 05:22 | 99-87-6    |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 05:22 | 75-09-2    |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0 | 5.0  | 1  |          | 06/30/20 05:22 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 06/30/20 05:22 | 108-10-1   |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 05:22 | 1634-04-4  |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 05:22 | 91-20-3    |      |
| n-Propylbenzene                         | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 05:22 | 103-65-1   |      |
| Styrene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:22 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:22 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:22 | 79-34-5    |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:22 | 127-18-4   |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0 | 90.0 | 1  |          | 06/30/20 05:22 | 109-99-9   | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:22 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 05:22 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 05:22 | 120-82-1   |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:22 | 71-55-6    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-122**      **Lab ID: 50260974007**      Collected: 06/24/20 13:45      Received: 06/26/20 09:15      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>                                     |         |       |        |      |    |                |                |             |      |
| Analytical Method: EPA 5030B/8260                             |         |       |        |      |    |                |                |             |      |
| Pace Analytical Services - Indianapolis                       |         |       |        |      |    |                |                |             |      |
| 1,1,2-Trichloroethane   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 05:22 | 79-00-5     |      |
| Trichloroethene   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 05:22 | 79-01-6     |      |
| Trichlorofluoromethane  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |                | 06/30/20 05:22 | 75-69-4     |      |
| 1,2,3-Trichloropropane  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 05:22 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 05:22 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |                | 06/30/20 05:22 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |                | 06/30/20 05:22 | 108-67-8    |      |
| Vinyl chloride  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 05:22 | 75-01-4     |      |
| m&p-Xylene  | <0.24   | ug/L  | 2.0    | 0.24 | 1  |                | 06/30/20 05:22 | 179601-23-1 |      |
| o-Xylene  | <0.16   | ug/L  | 1.0    | 0.16 | 1  |                | 06/30/20 05:22 | 95-47-6     |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |             |      |
| 4-Bromofluorobenzene (S)                                      | 102     | %     | 85-116 |      | 1  |                | 06/30/20 05:22 | 460-00-4    |      |
| Dibromofluoromethane (S)                                      | 99      | %     | 75-120 |      | 1  |                | 06/30/20 05:22 | 1868-53-7   |      |
| Toluene-d8 (S)  | 108     | %     | 83-111 |      | 1  |                | 06/30/20 05:22 | 2037-26-5   |      |
| <b>9012 Cyanide, Total</b>                                    |         |       |        |      |    |                |                |             |      |
| Analytical Method: EPA 9012      Preparation Method: EPA 9012 |         |       |        |      |    |                |                |             |      |
| Pace Analytical Services - Indianapolis                       |         |       |        |      |    |                |                |             |      |
| Cyanide   | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 07/01/20 12:15 | 07/02/20 16:11 | 57-12-5     |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-127**      **Lab ID: 50260974008**      Collected: 06/24/20 12:50      Received: 06/26/20 09:15      Matrix: Water

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|------------|------|
| <b>8015M Alcohols in water</b>   |         |       |        |      |    |                |                |            |      |
| Analytical Method: EPA 8015 Alcohol-Glycol<br>Pace Analytical Services - Indianapolis                |         |       |        |      |    |                |                |            |      |
| n-Butanol  | <800    | ug/L  | 5000   | 800  | 1  |                | 06/29/20 13:32 | 71-36-3    |      |
| Ethanol  | <1000   | ug/L  | 5000   | 1000 | 1  |                | 06/29/20 13:32 | 64-17-5    |      |
| Methanol   | <400    | ug/L  | 5000   | 400  | 1  |                | 06/29/20 13:32 | 67-56-1    |      |
| <b>8082 GCS PCB RV Waters</b>  |         |       |        |      |    |                |                |            |      |
| Analytical Method: EPA 8082 Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis  |         |       |        |      |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)  | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 06/30/20 21:50 | 07/02/20 04:36 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)  | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 06/30/20 21:50 | 07/02/20 04:36 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)  | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 06/30/20 21:50 | 07/02/20 04:36 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)  | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 06/30/20 21:50 | 07/02/20 04:36 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)  | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 06/30/20 21:50 | 07/02/20 04:36 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)  | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 06/30/20 21:50 | 07/02/20 04:36 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)  | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 06/30/20 21:50 | 07/02/20 04:36 | 11096-82-5 |      |
| PCB-1262 (Aroclor 1262)  | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 06/30/20 21:50 | 07/02/20 04:36 | 37324-23-5 | N2   |
| PCB-1268 (Aroclor 1268)  | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 06/30/20 21:50 | 07/02/20 04:36 | 11100-14-4 | N2   |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |            |      |
| Tetrachloro-m-xylene (S)   | 49      | %     | 10-144 |      | 1  | 06/30/20 21:50 | 07/02/20 04:36 | 877-09-8   |      |
| <b>6010 MET ICP</b>  |         |       |        |      |    |                |                |            |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3010<br>Pace Analytical Services - Indianapolis  |         |       |        |      |    |                |                |            |      |
| Arsenic  | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 06/30/20 05:43 | 07/07/20 09:20 | 7440-38-2  |      |
| Barium   | <100    | ug/L  | 100    | 100  | 1  | 06/30/20 05:43 | 07/07/20 09:20 | 7440-39-3  |      |
| Boron  | <300    | ug/L  | 300    | 300  | 1  | 06/30/20 05:43 | 07/07/20 09:20 | 7440-42-8  |      |
| Calcium  | 163000  | ug/L  | 1000   | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:20 | 7440-70-2  |      |
| Chromium   | <10.0   | ug/L  | 10.0   | 10.0 | 1  | 06/30/20 05:43 | 07/07/20 09:20 | 7440-47-3  |      |
| Cobalt   | <20.0   | ug/L  | 20.0   | 20.0 | 1  | 06/30/20 05:43 | 07/07/20 09:20 | 7440-48-4  |      |
| Copper   | 6.8     | ug/L  | 4.0    | 4.0  | 1  | 06/30/20 05:43 | 07/07/20 09:20 | 7440-50-8  |      |
| Iron   | 2000    | ug/L  | 200    | 200  | 1  | 06/30/20 05:43 | 07/07/20 09:20 | 7439-89-6  |      |
| Magnesium  | 22900   | ug/L  | 1000   | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:20 | 7439-95-4  |      |
| Manganese  | 422     | ug/L  | 50.0   | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 09:20 | 7439-96-5  |      |
| Molybdenum   | <50.0   | ug/L  | 50.0   | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 09:20 | 7439-98-7  |      |
| Nickel   | <20.0   | ug/L  | 20.0   | 20.0 | 1  | 06/30/20 05:43 | 07/07/20 09:20 | 7440-02-0  |      |
| Potassium  | 11300   | ug/L  | 1000   | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:20 | 7440-09-7  |      |
| Sodium   | 33200   | ug/L  | 1000   | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:20 | 7440-23-5  |      |
| Strontium  | <1000   | ug/L  | 1000   | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:20 | 7440-24-6  |      |
| Zinc   | <50.0   | ug/L  | 50.0   | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 09:20 | 7440-66-6  |      |
| <b>6020 MET ICPMS</b>  |         |       |        |      |    |                |                |            |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis |         |       |        |      |    |                |                |            |      |
| Aluminum   | 1530    | ug/L  | 250    | 250  | 5  | 06/30/20 09:29 | 07/02/20 01:48 | 7429-90-5  |      |
| Antimony   | <2.0    | ug/L  | 2.0    | 2.0  | 1  | 06/30/20 09:29 | 07/01/20 11:07 | 7440-36-0  |      |
| Beryllium  | <1.0    | ug/L  | 1.0    | 1.0  | 1  | 06/30/20 09:29 | 07/01/20 11:07 | 7440-41-7  |      |
| Cadmium  | <1.0    | ug/L  | 1.0    | 1.0  | 1  | 06/30/20 09:29 | 07/01/20 11:07 | 7440-43-9  |      |
| Lead   | 3.4     | ug/L  | 3.0    | 3.0  | 1  | 06/30/20 09:29 | 07/01/20 11:07 | 7439-92-1  |      |
| Selenium   | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 06/30/20 09:29 | 07/01/20 11:07 | 7782-49-2  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-127**      **Lab ID: 50260974008**      Collected: 06/24/20 12:50      Received: 06/26/20 09:15      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>6020 MET ICPMS</b>   |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 6020    Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis       |         |       |        |      |    |                |                |           |      |
| Silver  | <0.20   | ug/L  | 0.25   | 0.20 | 1  | 06/30/20 09:29 | 07/01/20 11:07 | 7440-22-4 |      |
| Thallium  | <2.0    | ug/L  | 2.0    | 2.0  | 1  | 06/30/20 09:29 | 07/01/20 11:07 | 7440-28-0 |      |
| Titanium  | 352     | ug/L  | 5.0    | 0.48 | 5  | 06/30/20 09:29 | 07/02/20 01:48 | 7440-32-6 | N2   |
| Vanadium  | 4.5     | ug/L  | 4.0    | 4.0  | 1  | 06/30/20 09:29 | 07/01/20 11:07 | 7440-62-2 |      |
| <b>7470 Mercury</b>   |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 7470    Preparation Method: EPA 7470<br>Pace Analytical Services - Indianapolis        |         |       |        |      |    |                |                |           |      |
| Mercury   | <0.12   | ug/L  | 0.20   | 0.12 | 1  | 07/01/20 11:50 | 07/01/20 23:24 | 7439-97-6 |      |
| <b>8270 100mL Combo RV</b>  |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis |         |       |        |      |    |                |                |           |      |
| Acenaphthene  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/30/20 20:52 | 83-32-9   |      |
| Acenaphthylene  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/30/20 20:52 | 208-96-8  |      |
| Anthracene  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/30/20 20:52 | 120-12-7  |      |
| Benzo(a)anthracene  | 1.2     | ug/L  | 0.95   | 0.95 | 1  | 06/29/20 10:44 | 06/30/20 20:52 | 56-55-3   |      |
| Benzo(a)pyrene  | 1.1     | ug/L  | 0.19   | 0.19 | 1  | 06/29/20 10:44 | 06/30/20 20:52 | 50-32-8   |      |
| Benzo(b)fluoranthene  | 1.3     | ug/L  | 0.95   | 0.95 | 1  | 06/29/20 10:44 | 06/30/20 20:52 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <0.95   | ug/L  | 0.95   | 0.95 | 1  | 06/29/20 10:44 | 06/30/20 20:52 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <0.95   | ug/L  | 0.95   | 0.95 | 1  | 06/29/20 10:44 | 06/30/20 20:52 | 207-08-9  |      |
| Chrysene  | 1.3     | ug/L  | 0.95   | 0.95 | 1  | 06/29/20 10:44 | 06/30/20 20:52 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | <1.9    | ug/L  | 1.9    | 1.9  | 1  | 06/29/20 10:44 | 06/30/20 20:52 | 53-70-3   |      |
| Fluoranthene  | 2.0     | ug/L  | 0.95   | 0.95 | 1  | 06/29/20 10:44 | 06/30/20 20:52 | 206-44-0  |      |
| Fluorene  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/30/20 20:52 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene  | <1.9    | ug/L  | 1.9    | 1.9  | 1  | 06/29/20 10:44 | 06/30/20 20:52 | 193-39-5  |      |
| 2-Methylnaphthalene   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/30/20 20:52 | 91-57-6   |      |
| Naphthalene   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/30/20 20:52 | 91-20-3   |      |
| Phenanthrene  | 3.7     | ug/L  | 1.9    | 1.9  | 1  | 06/29/20 10:44 | 06/30/20 20:52 | 85-01-8   |      |
| Pyrene  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/30/20 20:52 | 129-00-0  |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| 2-Fluorobiphenyl (S)  | 59      | %     | 32-107 |      | 1  | 06/29/20 10:44 | 06/30/20 20:52 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 79      | %     | 29-143 |      | 1  | 06/29/20 10:44 | 06/30/20 20:52 | 1718-51-0 |      |
| <b>8270 SVOC Combo Water</b>  |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis        |         |       |        |      |    |                |                |           |      |
| 4-Bromophenylphenyl ether   | <3.4    | ug/L  | 9.5    | 3.4  | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 101-55-3  |      |
| Butylbenzylphthalate  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 85-68-7   |      |
| Carbazole   | <9.5    | ug/L  | 9.5    | 9.5  | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 86-74-8   |      |
| 4-Chloro-3-methylphenol   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane  | <3.6    | ug/L  | 9.5    | 3.6  | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 111-91-1  |      |
| bis(2-Chloroethyl) ether  | <2.1    | ug/L  | 4.8    | 2.1  | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether  | <3.8    | ug/L  | 9.5    | 3.8  | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 108-60-1  |      |
| 2-Chloronaphthalene   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 91-58-7   |      |
| 2-Chlorophenol  | <9.5    | ug/L  | 9.5    | 9.5  | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether  | <2.7    | ug/L  | 9.5    | 2.7  | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 7005-72-3 |      |
| Dibenzofuran  | <3.8    | ug/L  | 4.8    | 3.8  | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 132-64-9  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-127**      **Lab ID: 50260974008**      Collected: 06/24/20 12:50      Received: 06/26/20 09:15      Matrix: Water

| Parameters   | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC Combo Water</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis |         |       |        |       |    |                |                |           |      |
| 2,4-Dichlorophenol   | <9.5    | ug/L  | 9.5    | 9.5   | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 120-83-2  |      |
| Diethylphthalate   | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 84-66-2   |      |
| 2,4-Dimethylphenol   | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 105-67-9  |      |
| Dimethylphthalate  | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 131-11-3  |      |
| Di-n-butylphthalate  | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | <19.0   | ug/L  | 19.0   | 19.0  | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 534-52-1  |      |
| 2,4-Dinitrophenol  | <3.7    | ug/L  | 47.6   | 3.7   | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 51-28-5   |      |
| 2,4-Dinitrotoluene   | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 121-14-2  |      |
| 2,6-Dinitrotoluene   | <3.2    | ug/L  | 4.8    | 3.2   | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 606-20-2  |      |
| Di-n-octylphthalate  | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 117-84-0  |      |
| 1,2-Diphenylhydrazine  | <3.5    | ug/L  | 9.5    | 3.5   | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate   | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 117-81-7  |      |
| Hexachloro-1,3-butadiene   | <2.9    | ug/L  | 4.8    | 2.9   | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 87-68-3   |      |
| Hexachlorobenzene  | <2.6    | ug/L  | 4.8    | 2.6   | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 118-74-1  |      |
| Hexachlorocyclopentadiene  | <23.8   | ug/L  | 23.8   | 23.8  | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 77-47-4   |      |
| Hexachloroethane   | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 67-72-1   |      |
| Isophorone   | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 78-59-1   |      |
| 2-Methylphenol(o-Cresol)   | <9.5    | ug/L  | 9.5    | 9.5   | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)   | <19.0   | ug/L  | 19.0   | 19.0  | 1  | 06/29/20 10:44 | 06/30/20 19:37 |           |      |
| 2-Nitroaniline   | <5.5    | ug/L  | 9.5    | 5.5   | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 88-74-4   |      |
| 3-Nitroaniline   | <4.8    | ug/L  | 9.5    | 4.8   | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 99-09-2   |      |
| 4-Nitroaniline   | <4.6    | ug/L  | 9.5    | 4.6   | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 100-01-6  |      |
| Nitrobenzene   | <2.9    | ug/L  | 4.8    | 2.9   | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 98-95-3   |      |
| 2-Nitrophenol  | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 88-75-5   |      |
| 4-Nitrophenol  | <5.8    | ug/L  | 47.6   | 5.8   | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 100-02-7  |      |
| N-Nitrosodimethylamine   | <2.7    | ug/L  | 9.5    | 2.7   | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine   | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 621-64-7  |      |
| N-Nitrosodiphenylamine   | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 86-30-6   |      |
| Pentachlorophenol  | <1.8    | ug/L  | 19.0   | 1.8   | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 87-86-5   |      |
| Phenol   | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 108-95-2  |      |
| 1,2,4-Trichlorobenzene   | <1.0    | ug/L  | 9.5    | 1.0   | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 120-82-1  |      |
| 2,4,5-Trichlorophenol  | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 95-95-4   |      |
| 2,4,6-Trichlorophenol  | <3.8    | ug/L  | 4.8    | 3.8   | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| Nitrobenzene-d5 (S)  | 75      | %     | 42-109 |       | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 4165-60-0 |      |
| Phenol-d5 (S)  | 38      | %     | 11-56  |       | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 4165-62-2 |      |
| 2-Fluorophenol (S)   | 52      | %     | 16-75  |       | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)   | 88      | %     | 45-126 |       | 1  | 06/29/20 10:44 | 06/30/20 19:37 | 118-79-6  |      |
| <b>8260C SIM Volatile Organics</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8260C SIM/5030C<br>Pace Analytical Services - Melville                          |         |       |        |       |    |                |                |           |      |
| 1,4-Dioxane (p-Dioxane)  | <0.090  | ug/L  | 0.20   | 0.090 | 1  |                | 07/02/20 17:37 | 123-91-1  |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| 1,2-Dichlorobenzene-d4 (S)   | 110     | %     | 60-140 |       | 1  |                | 07/02/20 17:37 | 2199-69-1 |      |
| 4-Bromofluorobenzene (S)   | 113     | %     | 79-124 |       | 1  |                | 07/02/20 17:37 | 460-00-4  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

Sample: MW-127 Lab ID: 50260974008 Collected: 06/24/20 12:50 Received: 06/26/20 09:15 Matrix: Water

| Parameters                  | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>   |         | Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Acetone                     | <50.0   | ug/L   | 50.0 | 50.0 | 1  |          | 06/30/20 05:55 | 67-64-1    |      |
| Acrylonitrile               | <2.0    | ug/L   | 2.0  | 2.0  | 1  |          | 06/30/20 05:55 | 107-13-1   |      |
| tert-Amylmethyl ether       | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 05:55 | 994-05-8   | N2   |
| Benzene                     | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 05:55 | 71-43-2    |      |
| Bromobenzene                | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 05:55 | 108-86-1   |      |
| Bromochloromethane          | <0.22   | ug/L   | 1.0  | 0.22 | 1  |          | 06/30/20 05:55 | 74-97-5    |      |
| Bromodichloromethane        | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 05:55 | 75-27-4    |      |
| Bromoform                   | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 05:55 | 75-25-2    |      |
| Bromomethane                | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 05:55 | 74-83-9    |      |
| 2-Butanone (MEK)            | <25.0   | ug/L   | 25.0 | 25.0 | 1  |          | 06/30/20 05:55 | 78-93-3    |      |
| tert-Butyl Alcohol          | <50.0   | ug/L   | 50.0 | 50.0 | 1  |          | 06/30/20 05:55 | 75-65-0    |      |
| n-Butylbenzene              | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 05:55 | 104-51-8   |      |
| sec-Butylbenzene            | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 05:55 | 135-98-8   |      |
| tert-Butylbenzene           | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 05:55 | 98-06-6    |      |
| Carbon disulfide            | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 05:55 | 75-15-0    |      |
| Carbon tetrachloride        | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 05:55 | 56-23-5    |      |
| Chlorobenzene               | 2.7     | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 05:55 | 108-90-7   |      |
| Chloroethane                | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 05:55 | 75-00-3    |      |
| Chloroform                  | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 05:55 | 67-66-3    |      |
| Chloromethane               | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 05:55 | 74-87-3    |      |
| Cyclohexane                 | <10.0   | ug/L   | 10.0 | 10.0 | 1  |          | 06/30/20 05:55 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane | <0.25   | ug/L   | 0.50 | 0.25 | 1  |          | 06/30/20 05:55 | 96-12-8    |      |
| Dibromochloromethane        | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 05:55 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | <0.23   | ug/L   | 0.50 | 0.23 | 1  |          | 06/30/20 05:55 | 106-93-4   |      |
| Dibromomethane              | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 05:55 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | 1.6     | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 05:55 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 05:55 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 05:55 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | <0.40   | ug/L   | 100  | 0.40 | 1  |          | 06/30/20 05:55 | 110-57-6   |      |
| Dichlorodifluoromethane     | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 05:55 | 75-71-8    | L1   |
| 1,1-Dichloroethane          | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 05:55 | 75-34-3    |      |
| 1,2-Dichloroethane          | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 05:55 | 107-06-2   |      |
| 1,1-Dichloroethene          | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 05:55 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 05:55 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 05:55 | 156-60-5   |      |
| 1,2-Dichloropropane         | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 05:55 | 78-87-5    |      |
| cis-1,3-Dichloropropene     | <100    | ug/L   | 100  | 100  | 1  |          | 06/30/20 05:55 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | <100    | ug/L   | 100  | 100  | 1  |          | 06/30/20 05:55 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether) | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 05:55 | 60-29-7    |      |
| Diisopropyl ether           | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 05:55 | 108-20-3   | N2   |
| Ethylbenzene                | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 05:55 | 100-41-4   |      |
| Ethyl-tert-butyl ether      | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 05:55 | 637-92-3   | N2   |
| Hexachloroethane            | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 05:55 | 67-72-1    | N2   |
| 2-Hexanone                  | <50.0   | ug/L   | 50.0 | 50.0 | 1  |          | 06/30/20 05:55 | 591-78-6   |      |
| Iodomethane                 | <0.51   | ug/L   | 5.0  | 0.51 | 1  |          | 06/30/20 05:55 | 74-88-4    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-127**      **Lab ID: 50260974008**      Collected: 06/24/20 12:50      Received: 06/26/20 09:15      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>                                     |         |       |        |      |    |                |                |             |      |
| Analytical Method: EPA 5030B/8260                             |         |       |        |      |    |                |                |             |      |
| Pace Analytical Services - Indianapolis                       |         |       |        |      |    |                |                |             |      |
| Isopropylbenzene (Cumene)                                     | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 05:55 | 98-82-8     |      |
| p-Isopropyltoluene  | 0.12J   | ug/L  | 1.0    | 0.11 | 1  |                | 06/30/20 05:55 | 99-87-6     |      |
| Methylene Chloride  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 05:55 | 75-09-2     |      |
| 2-Methylnaphthalene   | 18.5J   | ug/L  | 20.0   | 5.0  | 1  |                | 06/30/20 05:55 | 91-57-6     |      |
| 4-Methyl-2-pentanone (MIBK)                                   | <50.0   | ug/L  | 50.0   | 50.0 | 1  |                | 06/30/20 05:55 | 108-10-1    |      |
| Methyl-tert-butyl ether                                       | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 05:55 | 1634-04-4   |      |
| Naphthalene   | 8.0     | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 05:55 | 91-20-3     |      |
| n-Propylbenzene   | <100    | ug/L  | 100    | 100  | 1  |                | 06/30/20 05:55 | 103-65-1    |      |
| Styrene   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 05:55 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane                                     | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 05:55 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane                                     | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 05:55 | 79-34-5     |      |
| Tetrachloroethene   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 05:55 | 127-18-4    |      |
| Tetrahydrofuran   | <90.0   | ug/L  | 90.0   | 90.0 | 1  |                | 06/30/20 05:55 | 109-99-9    | N2   |
| Toluene   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 05:55 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 05:55 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 05:55 | 120-82-1    |      |
| 1,1,1-Trichloroethane   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 05:55 | 71-55-6     |      |
| 1,1,2-Trichloroethane   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 05:55 | 79-00-5     |      |
| Trichloroethene   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 05:55 | 79-01-6     |      |
| Trichlorofluoromethane  | 1.6J    | ug/L  | 2.0    | 1.0  | 1  |                | 06/30/20 05:55 | 75-69-4     |      |
| 1,2,3-Trichloropropane  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 05:55 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 05:55 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene  | 2.9J    | ug/L  | 5.0    | 1.0  | 1  |                | 06/30/20 05:55 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene  | 1.1J    | ug/L  | 5.0    | 1.0  | 1  |                | 06/30/20 05:55 | 108-67-8    |      |
| Vinyl chloride  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 05:55 | 75-01-4     |      |
| m&p-Xylene  | 0.77J   | ug/L  | 2.0    | 0.24 | 1  |                | 06/30/20 05:55 | 179601-23-1 |      |
| o-Xylene  | 1.6     | ug/L  | 1.0    | 0.16 | 1  |                | 06/30/20 05:55 | 95-47-6     |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |             |      |
| 4-Bromofluorobenzene (S)                                      | 104     | %     | 85-116 |      | 1  |                | 06/30/20 05:55 | 460-00-4    |      |
| Dibromofluoromethane (S)                                      | 100     | %     | 75-120 |      | 1  |                | 06/30/20 05:55 | 1868-53-7   |      |
| Toluene-d8 (S)  | 108     | %     | 83-111 |      | 1  |                | 06/30/20 05:55 | 2037-26-5   |      |
| <b>9012 Cyanide, Total</b>                                    |         |       |        |      |    |                |                |             |      |
| Analytical Method: EPA 9012      Preparation Method: EPA 9012 |         |       |        |      |    |                |                |             |      |
| Pace Analytical Services - Indianapolis                       |         |       |        |      |    |                |                |             |      |
| Cyanide   | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 07/01/20 12:15 | 07/02/20 16:13 | 57-12-5     |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-128**      **Lab ID: 50260974009**      Collected: 06/24/20 11:10      Received: 06/26/20 09:15      Matrix: Water

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|------------|------|
| <b>8015M Alcohols in water</b>   |         |       |        |      |    |                |                |            |      |
| Analytical Method: EPA 8015 Alcohol-Glycol<br>Pace Analytical Services - Indianapolis                |         |       |        |      |    |                |                |            |      |
| n-Butanol  | <800    | ug/L  | 5000   | 800  | 1  |                | 06/29/20 13:41 | 71-36-3    |      |
| Ethanol  | <1000   | ug/L  | 5000   | 1000 | 1  |                | 06/29/20 13:41 | 64-17-5    |      |
| Methanol   | <400    | ug/L  | 5000   | 400  | 1  |                | 06/29/20 13:41 | 67-56-1    |      |
| <b>8082 GCS PCB RV Waters</b>  |         |       |        |      |    |                |                |            |      |
| Analytical Method: EPA 8082 Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis  |         |       |        |      |    |                |                |            |      |
| PCB-1016 (Aroclor 1016)  | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 06/30/20 21:50 | 07/02/20 04:50 | 12674-11-2 |      |
| PCB-1221 (Aroclor 1221)  | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 06/30/20 21:50 | 07/02/20 04:50 | 11104-28-2 |      |
| PCB-1232 (Aroclor 1232)  | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 06/30/20 21:50 | 07/02/20 04:50 | 11141-16-5 |      |
| PCB-1242 (Aroclor 1242)  | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 06/30/20 21:50 | 07/02/20 04:50 | 53469-21-9 |      |
| PCB-1248 (Aroclor 1248)  | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 06/30/20 21:50 | 07/02/20 04:50 | 12672-29-6 |      |
| PCB-1254 (Aroclor 1254)  | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 06/30/20 21:50 | 07/02/20 04:50 | 11097-69-1 |      |
| PCB-1260 (Aroclor 1260)  | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 06/30/20 21:50 | 07/02/20 04:50 | 11096-82-5 |      |
| PCB-1262 (Aroclor 1262)  | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 06/30/20 21:50 | 07/02/20 04:50 | 37324-23-5 | N2   |
| PCB-1268 (Aroclor 1268)  | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 06/30/20 21:50 | 07/02/20 04:50 | 11100-14-4 | N2   |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |            |      |
| Tetrachloro-m-xylene (S)   | 53      | %     | 10-144 |      | 1  | 06/30/20 21:50 | 07/02/20 04:50 | 877-09-8   |      |
| <b>6010 MET ICP</b>  |         |       |        |      |    |                |                |            |      |
| Analytical Method: EPA 6010 Preparation Method: EPA 3010<br>Pace Analytical Services - Indianapolis  |         |       |        |      |    |                |                |            |      |
| Arsenic  | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 06/30/20 05:43 | 07/07/20 09:22 | 7440-38-2  |      |
| Barium   | 128     | ug/L  | 100    | 100  | 1  | 06/30/20 05:43 | 07/07/20 09:22 | 7440-39-3  |      |
| Boron  | 928     | ug/L  | 300    | 300  | 1  | 06/30/20 05:43 | 07/07/20 09:22 | 7440-42-8  |      |
| Calcium  | 209000  | ug/L  | 2000   | 2000 | 2  | 06/30/20 05:43 | 07/07/20 10:56 | 7440-70-2  |      |
| Chromium   | <10.0   | ug/L  | 10.0   | 10.0 | 1  | 06/30/20 05:43 | 07/07/20 09:22 | 7440-47-3  |      |
| Cobalt   | <20.0   | ug/L  | 20.0   | 20.0 | 1  | 06/30/20 05:43 | 07/07/20 09:22 | 7440-48-4  |      |
| Copper   | 4.6     | ug/L  | 4.0    | 4.0  | 1  | 06/30/20 05:43 | 07/07/20 09:22 | 7440-50-8  |      |
| Iron   | 356     | ug/L  | 200    | 200  | 1  | 06/30/20 05:43 | 07/07/20 09:22 | 7439-89-6  |      |
| Magnesium  | 34100   | ug/L  | 1000   | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:22 | 7439-95-4  |      |
| Manganese  | 239     | ug/L  | 50.0   | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 09:22 | 7439-96-5  |      |
| Molybdenum   | <50.0   | ug/L  | 50.0   | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 09:22 | 7439-98-7  |      |
| Nickel   | <20.0   | ug/L  | 20.0   | 20.0 | 1  | 06/30/20 05:43 | 07/07/20 09:22 | 7440-02-0  |      |
| Potassium  | 43100   | ug/L  | 1000   | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:22 | 7440-09-7  |      |
| Sodium   | 40800   | ug/L  | 1000   | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:22 | 7440-23-5  |      |
| Strontium  | <1000   | ug/L  | 1000   | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:22 | 7440-24-6  |      |
| Zinc   | <50.0   | ug/L  | 50.0   | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 09:22 | 7440-66-6  |      |
| <b>6020 MET ICPMS</b>  |         |       |        |      |    |                |                |            |      |
| Analytical Method: EPA 6020 Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis |         |       |        |      |    |                |                |            |      |
| Aluminum   | 204     | ug/L  | 50.0   | 50.0 | 1  | 06/30/20 09:29 | 07/01/20 11:11 | 7429-90-5  |      |
| Antimony   | <2.0    | ug/L  | 2.0    | 2.0  | 1  | 06/30/20 09:29 | 07/01/20 11:11 | 7440-36-0  |      |
| Beryllium  | <1.0    | ug/L  | 1.0    | 1.0  | 1  | 06/30/20 09:29 | 07/01/20 11:11 | 7440-41-7  |      |
| Cadmium  | <1.0    | ug/L  | 1.0    | 1.0  | 1  | 06/30/20 09:29 | 07/01/20 11:11 | 7440-43-9  |      |
| Lead   | <3.0    | ug/L  | 3.0    | 3.0  | 1  | 06/30/20 09:29 | 07/01/20 11:11 | 7439-92-1  |      |
| Selenium   | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 06/30/20 09:29 | 07/01/20 11:11 | 7782-49-2  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-128**      **Lab ID: 50260974009**      Collected: 06/24/20 11:10      Received: 06/26/20 09:15      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>6020 MET ICPMS</b>   |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 6020    Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis       |         |       |        |      |    |                |                |           |      |
| Silver  | <0.20   | ug/L  | 0.25   | 0.20 | 1  | 06/30/20 09:29 | 07/01/20 11:11 | 7440-22-4 |      |
| Thallium  | <2.0    | ug/L  | 2.0    | 2.0  | 1  | 06/30/20 09:29 | 07/01/20 11:11 | 7440-28-0 |      |
| Titanium  | 412     | ug/L  | 10.0   | 0.97 | 10 | 06/30/20 09:29 | 07/02/20 01:53 | 7440-32-6 | N2   |
| Vanadium  | <4.0    | ug/L  | 4.0    | 4.0  | 1  | 06/30/20 09:29 | 07/01/20 11:11 | 7440-62-2 |      |
| <b>7470 Mercury</b>   |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 7470    Preparation Method: EPA 7470<br>Pace Analytical Services - Indianapolis        |         |       |        |      |    |                |                |           |      |
| Mercury   | <0.12   | ug/L  | 0.20   | 0.12 | 1  | 07/01/20 11:50 | 07/01/20 23:27 | 7439-97-6 |      |
| <b>8270 100mL Combo RV</b>  |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis |         |       |        |      |    |                |                |           |      |
| Acenaphthene  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:10 | 83-32-9   |      |
| Acenaphthylene  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:10 | 208-96-8  |      |
| Anthracene  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:10 | 120-12-7  |      |
| Benzo(a)anthracene  | <0.95   | ug/L  | 0.95   | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 20:10 | 56-55-3   |      |
| Benzo(a)pyrene  | <0.19   | ug/L  | 0.19   | 0.19 | 1  | 06/29/20 10:44 | 06/29/20 20:10 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <0.95   | ug/L  | 0.95   | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 20:10 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <0.95   | ug/L  | 0.95   | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 20:10 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <0.95   | ug/L  | 0.95   | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 20:10 | 207-08-9  |      |
| Chrysene  | <0.95   | ug/L  | 0.95   | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 20:10 | 218-01-9  |      |
| Dibenz(a,h)anthracene   | <1.9    | ug/L  | 1.9    | 1.9  | 1  | 06/29/20 10:44 | 06/29/20 20:10 | 53-70-3   |      |
| Fluoranthene  | <0.95   | ug/L  | 0.95   | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 20:10 | 206-44-0  |      |
| Fluorene  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:10 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene  | <1.9    | ug/L  | 1.9    | 1.9  | 1  | 06/29/20 10:44 | 06/29/20 20:10 | 193-39-5  |      |
| 2-Methylnaphthalene   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:10 | 91-57-6   |      |
| Naphthalene   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:10 | 91-20-3   |      |
| Phenanthrene  | <1.9    | ug/L  | 1.9    | 1.9  | 1  | 06/29/20 10:44 | 06/29/20 20:10 | 85-01-8   |      |
| Pyrene  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:10 | 129-00-0  |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| 2-Fluorobiphenyl (S)  | 65      | %     | 32-107 |      | 1  | 06/29/20 10:44 | 06/29/20 20:10 | 321-60-8  |      |
| p-Terphenyl-d14 (S)   | 83      | %     | 29-143 |      | 1  | 06/29/20 10:44 | 06/29/20 20:10 | 1718-51-0 |      |
| <b>8270 SVOC Combo Water</b>  |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis        |         |       |        |      |    |                |                |           |      |
| 4-Bromophenylphenyl ether   | <3.4    | ug/L  | 9.5    | 3.4  | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 101-55-3  |      |
| Butylbenzylphthalate  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 85-68-7   |      |
| Carbazole   | <9.5    | ug/L  | 9.5    | 9.5  | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 86-74-8   |      |
| 4-Chloro-3-methylphenol   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane  | <3.6    | ug/L  | 9.5    | 3.6  | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 111-91-1  |      |
| bis(2-Chloroethyl) ether  | <2.1    | ug/L  | 4.8    | 2.1  | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether  | <3.8    | ug/L  | 9.5    | 3.8  | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 108-60-1  |      |
| 2-Chloronaphthalene   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 91-58-7   |      |
| 2-Chlorophenol  | <9.5    | ug/L  | 9.5    | 9.5  | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether  | <2.7    | ug/L  | 9.5    | 2.7  | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 7005-72-3 |      |
| Dibenzofuran  | <3.8    | ug/L  | 4.8    | 3.8  | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 132-64-9  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-128**      **Lab ID: 50260974009**      Collected: 06/24/20 11:10      Received: 06/26/20 09:15      Matrix: Water

| Parameters   | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC Combo Water</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis |         |       |        |       |    |                |                |           |      |
| 2,4-Dichlorophenol   | <9.5    | ug/L  | 9.5    | 9.5   | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 120-83-2  |      |
| Diethylphthalate   | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 84-66-2   |      |
| 2,4-Dimethylphenol   | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 105-67-9  |      |
| Dimethylphthalate  | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 131-11-3  |      |
| Di-n-butylphthalate  | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | <19.0   | ug/L  | 19.0   | 19.0  | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 534-52-1  |      |
| 2,4-Dinitrophenol  | <3.7    | ug/L  | 47.6   | 3.7   | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 51-28-5   |      |
| 2,4-Dinitrotoluene   | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 121-14-2  |      |
| 2,6-Dinitrotoluene   | <3.2    | ug/L  | 4.8    | 3.2   | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 606-20-2  |      |
| Di-n-octylphthalate  | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 117-84-0  |      |
| 1,2-Diphenylhydrazine  | <3.5    | ug/L  | 9.5    | 3.5   | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate   | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 117-81-7  |      |
| Hexachloro-1,3-butadiene   | <2.9    | ug/L  | 4.8    | 2.9   | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 87-68-3   |      |
| Hexachlorobenzene  | <2.6    | ug/L  | 4.8    | 2.6   | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 118-74-1  |      |
| Hexachlorocyclopentadiene  | <23.8   | ug/L  | 23.8   | 23.8  | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 77-47-4   |      |
| Hexachloroethane   | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 67-72-1   |      |
| Isophorone   | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 78-59-1   |      |
| 2-Methylphenol(o-Cresol)   | <9.5    | ug/L  | 9.5    | 9.5   | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)   | <19.0   | ug/L  | 19.0   | 19.0  | 1  | 06/29/20 10:44 | 06/29/20 20:57 |           |      |
| 2-Nitroaniline   | <5.5    | ug/L  | 9.5    | 5.5   | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 88-74-4   |      |
| 3-Nitroaniline   | <4.8    | ug/L  | 9.5    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 99-09-2   |      |
| 4-Nitroaniline   | <4.6    | ug/L  | 9.5    | 4.6   | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 100-01-6  |      |
| Nitrobenzene   | <2.9    | ug/L  | 4.8    | 2.9   | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 98-95-3   |      |
| 2-Nitrophenol  | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 88-75-5   |      |
| 4-Nitrophenol  | <5.8    | ug/L  | 47.6   | 5.8   | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 100-02-7  |      |
| N-Nitrosodimethylamine   | <2.7    | ug/L  | 9.5    | 2.7   | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine   | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 621-64-7  |      |
| N-Nitrosodiphenylamine   | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 86-30-6   |      |
| Pentachlorophenol  | <1.8    | ug/L  | 19.0   | 1.8   | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 87-86-5   |      |
| Phenol   | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 108-95-2  |      |
| 1,2,4-Trichlorobenzene   | <1.0    | ug/L  | 9.5    | 1.0   | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 120-82-1  |      |
| 2,4,5-Trichlorophenol  | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 95-95-4   |      |
| 2,4,6-Trichlorophenol  | <3.8    | ug/L  | 4.8    | 3.8   | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| Nitrobenzene-d5 (S)  | 63      | %     | 42-109 |       | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 4165-60-0 |      |
| Phenol-d5 (S)  | 43      | %     | 11-56  |       | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 4165-62-2 |      |
| 2-Fluorophenol (S)   | 52      | %     | 16-75  |       | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)   | 82      | %     | 45-126 |       | 1  | 06/29/20 10:44 | 06/29/20 20:57 | 118-79-6  |      |
| <b>8260C SIM Volatile Organics</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8260C SIM/5030C<br>Pace Analytical Services - Melville                          |         |       |        |       |    |                |                |           |      |
| 1,4-Dioxane (p-Dioxane)  | <0.090  | ug/L  | 0.20   | 0.090 | 1  |                | 07/02/20 18:04 | 123-91-1  |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| 1,2-Dichlorobenzene-d4 (S)   | 97      | %     | 60-140 |       | 1  |                | 07/02/20 18:04 | 2199-69-1 |      |
| 4-Bromofluorobenzene (S)   | 116     | %     | 79-124 |       | 1  |                | 07/02/20 18:04 | 460-00-4  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

Sample: MW-128 Lab ID: 50260974009 Collected: 06/24/20 11:10 Received: 06/26/20 09:15 Matrix: Water

| Parameters                  | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>   |         | Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Acetone                     | <50.0   | ug/L   | 50.0 | 50.0 | 1  |          | 06/30/20 06:28 | 67-64-1    |      |
| Acrylonitrile               | <2.0    | ug/L   | 2.0  | 2.0  | 1  |          | 06/30/20 06:28 | 107-13-1   |      |
| tert-Amylmethyl ether       | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 06:28 | 994-05-8   | N2   |
| Benzene                     | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 06:28 | 71-43-2    |      |
| Bromobenzene                | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 06:28 | 108-86-1   |      |
| Bromochloromethane          | <0.22   | ug/L   | 1.0  | 0.22 | 1  |          | 06/30/20 06:28 | 74-97-5    |      |
| Bromodichloromethane        | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 06:28 | 75-27-4    |      |
| Bromoform                   | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 06:28 | 75-25-2    |      |
| Bromomethane                | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 06:28 | 74-83-9    |      |
| 2-Butanone (MEK)            | <25.0   | ug/L   | 25.0 | 25.0 | 1  |          | 06/30/20 06:28 | 78-93-3    |      |
| tert-Butyl Alcohol          | <50.0   | ug/L   | 50.0 | 50.0 | 1  |          | 06/30/20 06:28 | 75-65-0    |      |
| n-Butylbenzene              | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 06:28 | 104-51-8   |      |
| sec-Butylbenzene            | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 06:28 | 135-98-8   |      |
| tert-Butylbenzene           | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 06:28 | 98-06-6    |      |
| Carbon disulfide            | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 06:28 | 75-15-0    |      |
| Carbon tetrachloride        | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 06:28 | 56-23-5    |      |
| Chlorobenzene               | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 06:28 | 108-90-7   |      |
| Chloroethane                | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 06:28 | 75-00-3    |      |
| Chloroform                  | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 06:28 | 67-66-3    |      |
| Chloromethane               | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 06:28 | 74-87-3    |      |
| Cyclohexane                 | <10.0   | ug/L   | 10.0 | 10.0 | 1  |          | 06/30/20 06:28 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane | <0.25   | ug/L   | 0.50 | 0.25 | 1  |          | 06/30/20 06:28 | 96-12-8    |      |
| Dibromochloromethane        | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 06:28 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | <0.23   | ug/L   | 0.50 | 0.23 | 1  |          | 06/30/20 06:28 | 106-93-4   |      |
| Dibromomethane              | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 06:28 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 06:28 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 06:28 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 06:28 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | <0.40   | ug/L   | 100  | 0.40 | 1  |          | 06/30/20 06:28 | 110-57-6   |      |
| Dichlorodifluoromethane     | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 06:28 | 75-71-8    | L1   |
| 1,1-Dichloroethane          | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 06:28 | 75-34-3    |      |
| 1,2-Dichloroethane          | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 06:28 | 107-06-2   |      |
| 1,1-Dichloroethene          | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 06:28 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 06:28 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 06:28 | 156-60-5   |      |
| 1,2-Dichloropropane         | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 06:28 | 78-87-5    |      |
| cis-1,3-Dichloropropene     | <100    | ug/L   | 100  | 100  | 1  |          | 06/30/20 06:28 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | <100    | ug/L   | 100  | 100  | 1  |          | 06/30/20 06:28 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether) | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 06:28 | 60-29-7    |      |
| Diisopropyl ether           | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 06:28 | 108-20-3   | N2   |
| Ethylbenzene                | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 06:28 | 100-41-4   |      |
| Ethyl-tert-butyl ether      | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 06:28 | 637-92-3   | N2   |
| Hexachloroethane            | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 06:28 | 67-72-1    | N2   |
| 2-Hexanone                  | <50.0   | ug/L   | 50.0 | 50.0 | 1  |          | 06/30/20 06:28 | 591-78-6   |      |
| Iodomethane                 | <0.51   | ug/L   | 5.0  | 0.51 | 1  |          | 06/30/20 06:28 | 74-88-4    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-128**      **Lab ID: 50260974009**      Collected: 06/24/20 11:10      Received: 06/26/20 09:15      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>                                     |         |       |        |      |    |                |                |             |      |
| Analytical Method: EPA 5030B/8260                             |         |       |        |      |    |                |                |             |      |
| Pace Analytical Services - Indianapolis                       |         |       |        |      |    |                |                |             |      |
| Isopropylbenzene (Cumene)                                     | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 06:28 | 98-82-8     |      |
| p-Isopropyltoluene  | <0.11   | ug/L  | 1.0    | 0.11 | 1  |                | 06/30/20 06:28 | 99-87-6     |      |
| Methylene Chloride  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 06:28 | 75-09-2     |      |
| 2-Methylnaphthalene   | <5.0    | ug/L  | 20.0   | 5.0  | 1  |                | 06/30/20 06:28 | 91-57-6     |      |
| 4-Methyl-2-pentanone (MIBK)                                   | <50.0   | ug/L  | 50.0   | 50.0 | 1  |                | 06/30/20 06:28 | 108-10-1    |      |
| Methyl-tert-butyl ether                                       | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 06:28 | 1634-04-4   |      |
| Naphthalene   | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 06:28 | 91-20-3     |      |
| n-Propylbenzene   | <100    | ug/L  | 100    | 100  | 1  |                | 06/30/20 06:28 | 103-65-1    |      |
| Styrene   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 06:28 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane                                     | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 06:28 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane                                     | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 06:28 | 79-34-5     |      |
| Tetrachloroethene   | 7.8     | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 06:28 | 127-18-4    |      |
| Tetrahydrofuran   | <90.0   | ug/L  | 90.0   | 90.0 | 1  |                | 06/30/20 06:28 | 109-99-9    | N2   |
| Toluene   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 06:28 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 06:28 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 06:28 | 120-82-1    |      |
| 1,1,1-Trichloroethane   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 06:28 | 71-55-6     |      |
| 1,1,2-Trichloroethane   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 06:28 | 79-00-5     |      |
| Trichloroethene   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 06:28 | 79-01-6     |      |
| Trichlorofluoromethane  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |                | 06/30/20 06:28 | 75-69-4     |      |
| 1,2,3-Trichloropropane  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 06:28 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 06:28 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |                | 06/30/20 06:28 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |                | 06/30/20 06:28 | 108-67-8    |      |
| Vinyl chloride  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 06:28 | 75-01-4     |      |
| m&p-Xylene  | <0.24   | ug/L  | 2.0    | 0.24 | 1  |                | 06/30/20 06:28 | 179601-23-1 |      |
| o-Xylene  | <0.16   | ug/L  | 1.0    | 0.16 | 1  |                | 06/30/20 06:28 | 95-47-6     |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |             |      |
| 4-Bromofluorobenzene (S)                                      | 104     | %     | 85-116 |      | 1  |                | 06/30/20 06:28 | 460-00-4    |      |
| Dibromofluoromethane (S)                                      | 107     | %     | 75-120 |      | 1  |                | 06/30/20 06:28 | 1868-53-7   |      |
| Toluene-d8 (S)  | 107     | %     | 83-111 |      | 1  |                | 06/30/20 06:28 | 2037-26-5   |      |
| <b>9012 Cyanide, Total</b>                                    |         |       |        |      |    |                |                |             |      |
| Analytical Method: EPA 9012      Preparation Method: EPA 9012 |         |       |        |      |    |                |                |             |      |
| Pace Analytical Services - Indianapolis                       |         |       |        |      |    |                |                |             |      |
| Cyanide   | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 07/01/20 12:15 | 07/02/20 16:14 | 57-12-5     |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-129**      **Lab ID: 50260974010**      Collected: 06/24/20 12:10      Received: 06/26/20 09:15      Matrix: Water

| Parameters  | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|------|------|----|----------------|----------------|-----------|------|
| <b>6010 MET ICP</b>   |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 6010    Preparation Method: EPA 3010<br>Pace Analytical Services - Indianapolis        |         |       |      |      |    |                |                |           |      |
| Arsenic   | 6.5     | ug/L  | 5.0  | 5.0  | 1  | 06/30/20 05:43 | 07/07/20 09:25 | 7440-38-2 |      |
| Barium  | <100    | ug/L  | 100  | 100  | 1  | 06/30/20 05:43 | 07/07/20 09:25 | 7440-39-3 |      |
| Boron   | 583     | ug/L  | 300  | 300  | 1  | 06/30/20 05:43 | 07/07/20 09:25 | 7440-42-8 |      |
| Calcium   | 112000  | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:25 | 7440-70-2 |      |
| Chromium  | <10.0   | ug/L  | 10.0 | 10.0 | 1  | 06/30/20 05:43 | 07/07/20 09:25 | 7440-47-3 |      |
| Cobalt  | <20.0   | ug/L  | 20.0 | 20.0 | 1  | 06/30/20 05:43 | 07/07/20 09:25 | 7440-48-4 |      |
| Copper  | 11.4    | ug/L  | 4.0  | 4.0  | 1  | 06/30/20 05:43 | 07/07/20 09:25 | 7440-50-8 |      |
| Iron  | 636     | ug/L  | 200  | 200  | 1  | 06/30/20 05:43 | 07/07/20 09:25 | 7439-89-6 |      |
| Magnesium   | 5240    | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:25 | 7439-95-4 |      |
| Manganese   | 338     | ug/L  | 50.0 | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 09:25 | 7439-96-5 |      |
| Molybdenum  | 50.2    | ug/L  | 50.0 | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 09:25 | 7439-98-7 |      |
| Nickel  | <20.0   | ug/L  | 20.0 | 20.0 | 1  | 06/30/20 05:43 | 07/07/20 09:25 | 7440-02-0 |      |
| Potassium   | 60200   | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:25 | 7440-09-7 |      |
| Sodium  | 59700   | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:25 | 7440-23-5 |      |
| Strontium   | <1000   | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:25 | 7440-24-6 |      |
| Zinc  | <50.0   | ug/L  | 50.0 | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 09:25 | 7440-66-6 |      |
| <b>6020 MET ICPMS</b>   |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 6020    Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis       |         |       |      |      |    |                |                |           |      |
| Aluminum  | 461     | ug/L  | 50.0 | 50.0 | 1  | 06/30/20 09:29 | 07/01/20 11:16 | 7429-90-5 |      |
| Antimony  | <2.0    | ug/L  | 2.0  | 2.0  | 1  | 06/30/20 09:29 | 07/01/20 11:16 | 7440-36-0 |      |
| Beryllium   | <1.0    | ug/L  | 1.0  | 1.0  | 1  | 06/30/20 09:29 | 07/01/20 11:16 | 7440-41-7 |      |
| Cadmium   | <1.0    | ug/L  | 1.0  | 1.0  | 1  | 06/30/20 09:29 | 07/01/20 11:16 | 7440-43-9 |      |
| Lead  | <3.0    | ug/L  | 3.0  | 3.0  | 1  | 06/30/20 09:29 | 07/01/20 11:16 | 7439-92-1 |      |
| Selenium  | <5.0    | ug/L  | 5.0  | 5.0  | 1  | 06/30/20 09:29 | 07/01/20 11:16 | 7782-49-2 |      |
| Silver  | <0.20   | ug/L  | 0.25 | 0.20 | 1  | 06/30/20 09:29 | 07/01/20 11:16 | 7440-22-4 |      |
| Thallium  | <2.0    | ug/L  | 2.0  | 2.0  | 1  | 06/30/20 09:29 | 07/01/20 11:16 | 7440-28-0 |      |
| Titanium  | 228     | ug/L  | 5.0  | 0.48 | 5  | 06/30/20 09:29 | 07/02/20 01:57 | 7440-32-6 | N2   |
| Vanadium  | 7.2     | ug/L  | 4.0  | 4.0  | 1  | 06/30/20 09:29 | 07/01/20 11:16 | 7440-62-2 |      |
| <b>7470 Mercury</b>   |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 7470    Preparation Method: EPA 7470<br>Pace Analytical Services - Indianapolis        |         |       |      |      |    |                |                |           |      |
| Mercury   | <0.12   | ug/L  | 0.20 | 0.12 | 1  | 07/01/20 11:50 | 07/01/20 23:35 | 7439-97-6 |      |
| <b>8270 100mL Combo RV</b>  |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis |         |       |      |      |    |                |                |           |      |
| Acenaphthene  | <4.5    | ug/L  | 4.5  | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 20:21 | 83-32-9   |      |
| Acenaphthylene  | <4.5    | ug/L  | 4.5  | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 20:21 | 208-96-8  |      |
| Anthracene  | <4.5    | ug/L  | 4.5  | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 20:21 | 120-12-7  |      |
| Benzo(a)anthracene  | <0.91   | ug/L  | 0.91 | 0.91 | 1  | 06/29/20 10:44 | 06/29/20 20:21 | 56-55-3   |      |
| Benzo(a)pyrene  | <0.18   | ug/L  | 0.18 | 0.18 | 1  | 06/29/20 10:44 | 06/29/20 20:21 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <0.91   | ug/L  | 0.91 | 0.91 | 1  | 06/29/20 10:44 | 06/29/20 20:21 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <0.91   | ug/L  | 0.91 | 0.91 | 1  | 06/29/20 10:44 | 06/29/20 20:21 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <0.91   | ug/L  | 0.91 | 0.91 | 1  | 06/29/20 10:44 | 06/29/20 20:21 | 207-08-9  |      |
| Chrysene  | <0.91   | ug/L  | 0.91 | 0.91 | 1  | 06/29/20 10:44 | 06/29/20 20:21 | 218-01-9  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-129**      **Lab ID: 50260974010**      Collected: 06/24/20 12:10      Received: 06/26/20 09:15      Matrix: Water

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 100mL Combo RV</b>   |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3510 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                            |         |       |        |      |    |                |                |           |      |
| Dibenz(a,h)anthracene  | <1.8    | ug/L  | 1.8    | 1.8  | 1  | 06/29/20 10:44 | 06/29/20 20:21 | 53-70-3   |      |
| Fluoranthene   | <0.91   | ug/L  | 0.91   | 0.91 | 1  | 06/29/20 10:44 | 06/29/20 20:21 | 206-44-0  |      |
| Fluorene   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 20:21 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | <1.8    | ug/L  | 1.8    | 1.8  | 1  | 06/29/20 10:44 | 06/29/20 20:21 | 193-39-5  |      |
| 2-Methylnaphthalene  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 20:21 | 91-57-6   |      |
| Naphthalene  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 20:21 | 91-20-3   |      |
| Phenanthrene   | <1.8    | ug/L  | 1.8    | 1.8  | 1  | 06/29/20 10:44 | 06/29/20 20:21 | 85-01-8   |      |
| Pyrene   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 20:21 | 129-00-0  |      |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |           |      |
| 2-Fluorobiphenyl (S)   | 75      | %     | 32-107 |      | 1  | 06/29/20 10:44 | 06/29/20 20:21 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 88      | %     | 29-143 |      | 1  | 06/29/20 10:44 | 06/29/20 20:21 | 1718-51-0 |      |
| <b>8270 SVOC Combo Water</b>                                       |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3510        |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                            |         |       |        |      |    |                |                |           |      |
| 4-Bromophenylphenyl ether  | <3.2    | ug/L  | 9.1    | 3.2  | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 101-55-3  |      |
| Butylbenzylphthalate   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 85-68-7   |      |
| Carbazole  | <9.1    | ug/L  | 9.1    | 9.1  | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 86-74-8   |      |
| 4-Chloro-3-methylphenol  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane   | <3.4    | ug/L  | 9.1    | 3.4  | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 111-91-1  |      |
| bis(2-Chloroethyl) ether   | <2.0    | ug/L  | 4.5    | 2.0  | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                                       | <3.6    | ug/L  | 9.1    | 3.6  | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 108-60-1  |      |
| 2-Chloronaphthalene  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 91-58-7   |      |
| 2-Chlorophenol   | <9.1    | ug/L  | 9.1    | 9.1  | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether   | <2.6    | ug/L  | 9.1    | 2.6  | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 7005-72-3 |      |
| Dibenzofuran   | <3.6    | ug/L  | 4.5    | 3.6  | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 132-64-9  |      |
| 2,4-Dichlorophenol   | <9.1    | ug/L  | 9.1    | 9.1  | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 120-83-2  |      |
| Diethylphthalate   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 84-66-2   |      |
| 2,4-Dimethylphenol   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 105-67-9  |      |
| Dimethylphthalate  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 131-11-3  |      |
| Di-n-butylphthalate  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | <18.2   | ug/L  | 18.2   | 18.2 | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 534-52-1  |      |
| 2,4-Dinitrophenol  | <3.5    | ug/L  | 45.5   | 3.5  | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 51-28-5   |      |
| 2,4-Dinitrotoluene   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 121-14-2  |      |
| 2,6-Dinitrotoluene   | <3.0    | ug/L  | 4.5    | 3.0  | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 606-20-2  |      |
| Di-n-octylphthalate  | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 117-84-0  |      |
| 1,2-Diphenylhydrazine  | <3.3    | ug/L  | 9.1    | 3.3  | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 117-81-7  |      |
| Hexachloro-1,3-butadiene   | <2.7    | ug/L  | 4.5    | 2.7  | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 87-68-3   |      |
| Hexachlorobenzene  | <2.4    | ug/L  | 4.5    | 2.4  | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 118-74-1  |      |
| Hexachlorocyclopentadiene  | <22.7   | ug/L  | 22.7   | 22.7 | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 77-47-4   |      |
| Hexachloroethane   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 67-72-1   |      |
| Isophorone   | <4.5    | ug/L  | 4.5    | 4.5  | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 78-59-1   |      |
| 2-Methylphenol(o-Cresol)   | <9.1    | ug/L  | 9.1    | 9.1  | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                                       | <18.2   | ug/L  | 18.2   | 18.2 | 1  | 06/29/20 10:44 | 06/29/20 21:13 |           |      |
| 2-Nitroaniline   | <5.3    | ug/L  | 9.1    | 5.3  | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 88-74-4   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-129**      **Lab ID: 50260974010**      Collected: 06/24/20 12:10      Received: 06/26/20 09:15      Matrix: Water

| Parameters   | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC Combo Water</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis |         |       |        |       |    |                |                |           |      |
| 3-Nitroaniline   | <4.6    | ug/L  | 9.1    | 4.6   | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 99-09-2   |      |
| 4-Nitroaniline   | <4.4    | ug/L  | 9.1    | 4.4   | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 100-01-6  |      |
| Nitrobenzene   | <2.7    | ug/L  | 4.5    | 2.7   | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 98-95-3   |      |
| 2-Nitrophenol  | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 88-75-5   |      |
| 4-Nitrophenol  | <5.5    | ug/L  | 45.5   | 5.5   | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 100-02-7  |      |
| N-Nitrosodimethylamine   | <2.6    | ug/L  | 9.1    | 2.6   | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine   | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 621-64-7  |      |
| N-Nitrosodiphenylamine   | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 86-30-6   |      |
| Pentachlorophenol  | <1.8    | ug/L  | 18.2   | 1.8   | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 87-86-5   |      |
| Phenol   | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 108-95-2  |      |
| 1,2,4-Trichlorobenzene   | <0.99   | ug/L  | 9.1    | 0.99  | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 120-82-1  |      |
| 2,4,5-Trichlorophenol  | <4.5    | ug/L  | 4.5    | 4.5   | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 95-95-4   |      |
| 2,4,6-Trichlorophenol  | <3.6    | ug/L  | 4.5    | 3.6   | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| Nitrobenzene-d5 (S)  | 68      | %     | 42-109 |       | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 4165-60-0 |      |
| Phenol-d5 (S)  | 52      | %     | 11-56  |       | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 4165-62-2 |      |
| 2-Fluorophenol (S)   | 60      | %     | 16-75  |       | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)   | 95      | %     | 45-126 |       | 1  | 06/29/20 10:44 | 06/29/20 21:13 | 118-79-6  |      |
| <b>8260C SIM Volatile Organics</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8260C SIM/5030C<br>Pace Analytical Services - Melville                          |         |       |        |       |    |                |                |           |      |
| 1,4-Dioxane (p-Dioxane)  | <0.090  | ug/L  | 0.20   | 0.090 | 1  |                | 07/02/20 18:31 | 123-91-1  |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| 1,2-Dichlorobenzene-d4 (S)   | 101     | %     | 60-140 |       | 1  |                | 07/02/20 18:31 | 2199-69-1 |      |
| 4-Bromofluorobenzene (S)   | 119     | %     | 79-124 |       | 1  |                | 07/02/20 18:31 | 460-00-4  |      |
| <b>8260 MSV Low Level</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis                           |         |       |        |       |    |                |                |           |      |
| Acetone  | <50.0   | ug/L  | 50.0   | 50.0  | 1  |                | 06/30/20 07:02 | 67-64-1   |      |
| Acrylonitrile  | <2.0    | ug/L  | 2.0    | 2.0   | 1  |                | 06/30/20 07:02 | 107-13-1  |      |
| tert-Amylmethyl ether  | <5.0    | ug/L  | 5.0    | 5.0   | 1  |                | 06/30/20 07:02 | 994-05-8  | N2   |
| Benzene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 07:02 | 71-43-2   |      |
| Bromobenzene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 07:02 | 108-86-1  |      |
| Bromochloromethane   | <0.22   | ug/L  | 1.0    | 0.22  | 1  |                | 06/30/20 07:02 | 74-97-5   |      |
| Bromodichloromethane   | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 07:02 | 75-27-4   |      |
| Bromoform  | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 07:02 | 75-25-2   |      |
| Bromomethane   | <5.0    | ug/L  | 5.0    | 5.0   | 1  |                | 06/30/20 07:02 | 74-83-9   |      |
| 2-Butanone (MEK)   | <25.0   | ug/L  | 25.0   | 25.0  | 1  |                | 06/30/20 07:02 | 78-93-3   |      |
| tert-Butyl Alcohol   | <50.0   | ug/L  | 50.0   | 50.0  | 1  |                | 06/30/20 07:02 | 75-65-0   |      |
| n-Butylbenzene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 07:02 | 104-51-8  |      |
| sec-Butylbenzene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 07:02 | 135-98-8  |      |
| tert-Butylbenzene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 07:02 | 98-06-6   |      |
| Carbon disulfide   | <5.0    | ug/L  | 5.0    | 5.0   | 1  |                | 06/30/20 07:02 | 75-15-0   |      |
| Carbon tetrachloride   | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 07:02 | 56-23-5   |      |
| Chlorobenzene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 07:02 | 108-90-7  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-129**      **Lab ID: 50260974010**      Collected: 06/24/20 12:10      Received: 06/26/20 09:15      Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 07:02 | 75-00-3    |      |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:02 | 67-66-3    |      |
| Chloromethane                           | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 07:02 | 74-87-3    |      |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 06/30/20 07:02 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 06/30/20 07:02 | 96-12-8    |      |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 07:02 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 06/30/20 07:02 | 106-93-4   |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 07:02 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:02 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:02 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:02 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.40   | ug/L  | 100  | 0.40 | 1  |          | 06/30/20 07:02 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 07:02 | 75-71-8    | L1   |
| 1,1-Dichloroethane                      | 1.0     | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:02 | 75-34-3    |      |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:02 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:02 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:02 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:02 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:02 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 07:02 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 07:02 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 07:02 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 07:02 | 108-20-3   | N2   |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:02 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 07:02 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 07:02 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 06/30/20 07:02 | 591-78-6   |      |
| Iodomethane                             | <0.51   | ug/L  | 5.0  | 0.51 | 1  |          | 06/30/20 07:02 | 74-88-4    |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 07:02 | 98-82-8    |      |
| p-Isopropyltoluene                      | <0.11   | ug/L  | 1.0  | 0.11 | 1  |          | 06/30/20 07:02 | 99-87-6    |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 07:02 | 75-09-2    |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0 | 5.0  | 1  |          | 06/30/20 07:02 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 06/30/20 07:02 | 108-10-1   |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 07:02 | 1634-04-4  |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 07:02 | 91-20-3    |      |
| n-Propylbenzene                         | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 07:02 | 103-65-1   |      |
| Styrene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:02 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:02 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:02 | 79-34-5    |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:02 | 127-18-4   |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0 | 90.0 | 1  |          | 06/30/20 07:02 | 109-99-9   | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:02 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 07:02 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 07:02 | 120-82-1   |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:02 | 71-55-6    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-129**      **Lab ID: 50260974010**      Collected: 06/24/20 12:10      Received: 06/26/20 09:15      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>                                     |         |       |        |      |    |                |                |             |      |
| Analytical Method: EPA 5030B/8260                             |         |       |        |      |    |                |                |             |      |
| Pace Analytical Services - Indianapolis                       |         |       |        |      |    |                |                |             |      |
| 1,1,2-Trichloroethane   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 07:02 | 79-00-5     |      |
| Trichloroethene   | 1.5     | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 07:02 | 79-01-6     |      |
| Trichlorofluoromethane  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |                | 06/30/20 07:02 | 75-69-4     |      |
| 1,2,3-Trichloropropane  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 07:02 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 07:02 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |                | 06/30/20 07:02 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |                | 06/30/20 07:02 | 108-67-8    |      |
| Vinyl chloride  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 07:02 | 75-01-4     |      |
| m&p-Xylene  | <0.24   | ug/L  | 2.0    | 0.24 | 1  |                | 06/30/20 07:02 | 179601-23-1 |      |
| o-Xylene  | <0.16   | ug/L  | 1.0    | 0.16 | 1  |                | 06/30/20 07:02 | 95-47-6     |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |             |      |
| 4-Bromofluorobenzene (S)                                      | 100     | %     | 85-116 |      | 1  |                | 06/30/20 07:02 | 460-00-4    |      |
| Dibromofluoromethane (S)                                      | 100     | %     | 75-120 |      | 1  |                | 06/30/20 07:02 | 1868-53-7   |      |
| Toluene-d8 (S)  | 108     | %     | 83-111 |      | 1  |                | 06/30/20 07:02 | 2037-26-5   |      |
| <b>9012 Cyanide, Total</b>                                    |         |       |        |      |    |                |                |             |      |
| Analytical Method: EPA 9012      Preparation Method: EPA 9012 |         |       |        |      |    |                |                |             |      |
| Pace Analytical Services - Indianapolis                       |         |       |        |      |    |                |                |             |      |
| Cyanide   | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 07/01/20 12:15 | 07/02/20 16:16 | 57-12-5     |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-131**      **Lab ID: 50260974011**      Collected: 06/24/20 14:56      Received: 06/26/20 09:15      Matrix: Water

| Parameters  | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|------|------|----|----------------|----------------|-----------|------|
| <b>6010 MET ICP</b>   |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 6010    Preparation Method: EPA 3010<br>Pace Analytical Services - Indianapolis        |         |       |      |      |    |                |                |           |      |
| Arsenic   | <5.0    | ug/L  | 5.0  | 5.0  | 1  | 06/30/20 05:43 | 07/07/20 09:27 | 7440-38-2 |      |
| Barium  | <100    | ug/L  | 100  | 100  | 1  | 06/30/20 05:43 | 07/07/20 09:27 | 7440-39-3 |      |
| Boron   | <300    | ug/L  | 300  | 300  | 1  | 06/30/20 05:43 | 07/07/20 09:27 | 7440-42-8 |      |
| Calcium   | 70500   | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:27 | 7440-70-2 |      |
| Chromium  | <10.0   | ug/L  | 10.0 | 10.0 | 1  | 06/30/20 05:43 | 07/07/20 09:27 | 7440-47-3 |      |
| Cobalt  | <20.0   | ug/L  | 20.0 | 20.0 | 1  | 06/30/20 05:43 | 07/07/20 09:27 | 7440-48-4 |      |
| Copper  | 6.3     | ug/L  | 4.0  | 4.0  | 1  | 06/30/20 05:43 | 07/07/20 09:27 | 7440-50-8 |      |
| Iron  | 3320    | ug/L  | 200  | 200  | 1  | 06/30/20 05:43 | 07/07/20 09:27 | 7439-89-6 |      |
| Magnesium   | 7520    | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:27 | 7439-95-4 |      |
| Manganese   | 553     | ug/L  | 50.0 | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 09:27 | 7439-96-5 |      |
| Molybdenum  | <50.0   | ug/L  | 50.0 | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 09:27 | 7439-98-7 |      |
| Nickel  | <20.0   | ug/L  | 20.0 | 20.0 | 1  | 06/30/20 05:43 | 07/07/20 09:27 | 7440-02-0 |      |
| Potassium   | 9520    | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:27 | 7440-09-7 |      |
| Sodium  | 16000   | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:27 | 7440-23-5 |      |
| Strontium   | <1000   | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:27 | 7440-24-6 |      |
| Zinc  | <50.0   | ug/L  | 50.0 | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 09:27 | 7440-66-6 |      |
| <b>6020 MET ICPMS</b>   |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 6020    Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis       |         |       |      |      |    |                |                |           |      |
| Aluminum  | 2400    | ug/L  | 250  | 250  | 5  | 06/30/20 09:29 | 07/02/20 02:02 | 7429-90-5 |      |
| Antimony  | <2.0    | ug/L  | 2.0  | 2.0  | 1  | 06/30/20 09:29 | 07/01/20 11:21 | 7440-36-0 |      |
| Beryllium   | <1.0    | ug/L  | 1.0  | 1.0  | 1  | 06/30/20 09:29 | 07/01/20 11:21 | 7440-41-7 |      |
| Cadmium   | <1.0    | ug/L  | 1.0  | 1.0  | 1  | 06/30/20 09:29 | 07/01/20 11:21 | 7440-43-9 |      |
| Lead  | 5.8     | ug/L  | 3.0  | 3.0  | 1  | 06/30/20 09:29 | 07/01/20 11:21 | 7439-92-1 |      |
| Selenium  | <5.0    | ug/L  | 5.0  | 5.0  | 1  | 06/30/20 09:29 | 07/01/20 11:21 | 7782-49-2 |      |
| Silver  | <0.20   | ug/L  | 0.25 | 0.20 | 1  | 06/30/20 09:29 | 07/01/20 11:21 | 7440-22-4 |      |
| Thallium  | <2.0    | ug/L  | 2.0  | 2.0  | 1  | 06/30/20 09:29 | 07/01/20 11:21 | 7440-28-0 |      |
| Titanium  | 189     | ug/L  | 5.0  | 0.48 | 5  | 06/30/20 09:29 | 07/02/20 02:02 | 7440-32-6 | N2   |
| Vanadium  | 6.7     | ug/L  | 4.0  | 4.0  | 1  | 06/30/20 09:29 | 07/01/20 11:21 | 7440-62-2 |      |
| <b>7470 Mercury</b>   |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 7470    Preparation Method: EPA 7470<br>Pace Analytical Services - Indianapolis        |         |       |      |      |    |                |                |           |      |
| Mercury   | <0.12   | ug/L  | 0.20 | 0.12 | 1  | 07/01/20 11:50 | 07/01/20 23:37 | 7439-97-6 |      |
| <b>8270 100mL Combo RV</b>  |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis |         |       |      |      |    |                |                |           |      |
| Acenaphthene  | <4.8    | ug/L  | 4.8  | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:33 | 83-32-9   |      |
| Acenaphthylene  | <4.8    | ug/L  | 4.8  | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:33 | 208-96-8  |      |
| Anthracene  | <4.8    | ug/L  | 4.8  | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:33 | 120-12-7  |      |
| Benzo(a)anthracene  | <0.95   | ug/L  | 0.95 | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 20:33 | 56-55-3   |      |
| Benzo(a)pyrene  | <0.19   | ug/L  | 0.19 | 0.19 | 1  | 06/29/20 10:44 | 06/29/20 20:33 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <0.95   | ug/L  | 0.95 | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 20:33 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <0.95   | ug/L  | 0.95 | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 20:33 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <0.95   | ug/L  | 0.95 | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 20:33 | 207-08-9  |      |
| Chrysene  | <0.95   | ug/L  | 0.95 | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 20:33 | 218-01-9  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260974

**Sample: MW-131**      **Lab ID: 50260974011**      Collected: 06/24/20 14:56      Received: 06/26/20 09:15      Matrix: Water

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 100mL Combo RV</b>   |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3510 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                            |         |       |        |      |    |                |                |           |      |
| Dibenz(a,h)anthracene  | <1.9    | ug/L  | 1.9    | 1.9  | 1  | 06/29/20 10:44 | 06/29/20 20:33 | 53-70-3   |      |
| Fluoranthene   | <0.95   | ug/L  | 0.95   | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 20:33 | 206-44-0  |      |
| Fluorene   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:33 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | <1.9    | ug/L  | 1.9    | 1.9  | 1  | 06/29/20 10:44 | 06/29/20 20:33 | 193-39-5  |      |
| 2-Methylnaphthalene  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:33 | 91-57-6   |      |
| Naphthalene  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:33 | 91-20-3   |      |
| Phenanthrene   | <1.9    | ug/L  | 1.9    | 1.9  | 1  | 06/29/20 10:44 | 06/29/20 20:33 | 85-01-8   |      |
| Pyrene   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:33 | 129-00-0  |      |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |           |      |
| 2-Fluorobiphenyl (S)   | 73      | %     | 32-107 |      | 1  | 06/29/20 10:44 | 06/29/20 20:33 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 87      | %     | 29-143 |      | 1  | 06/29/20 10:44 | 06/29/20 20:33 | 1718-51-0 |      |
| <b>8270 SVOC Combo Water</b>                                       |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3510        |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                            |         |       |        |      |    |                |                |           |      |
| 4-Bromophenylphenyl ether  | <3.4    | ug/L  | 9.5    | 3.4  | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 101-55-3  |      |
| Butylbenzylphthalate   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 85-68-7   |      |
| Carbazole  | <9.5    | ug/L  | 9.5    | 9.5  | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 86-74-8   |      |
| 4-Chloro-3-methylphenol  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane   | <3.6    | ug/L  | 9.5    | 3.6  | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 111-91-1  |      |
| bis(2-Chloroethyl) ether   | <2.1    | ug/L  | 4.8    | 2.1  | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                                       | <3.8    | ug/L  | 9.5    | 3.8  | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 108-60-1  |      |
| 2-Chloronaphthalene  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 91-58-7   |      |
| 2-Chlorophenol   | <9.5    | ug/L  | 9.5    | 9.5  | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether   | <2.7    | ug/L  | 9.5    | 2.7  | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 7005-72-3 |      |
| Dibenzofuran   | <3.8    | ug/L  | 4.8    | 3.8  | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 132-64-9  |      |
| 2,4-Dichlorophenol   | <9.5    | ug/L  | 9.5    | 9.5  | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 120-83-2  |      |
| Diethylphthalate   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 84-66-2   |      |
| 2,4-Dimethylphenol   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 105-67-9  |      |
| Dimethylphthalate  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 131-11-3  |      |
| Di-n-butylphthalate  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | <19.0   | ug/L  | 19.0   | 19.0 | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 534-52-1  |      |
| 2,4-Dinitrophenol  | <3.7    | ug/L  | 47.6   | 3.7  | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 51-28-5   |      |
| 2,4-Dinitrotoluene   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 121-14-2  |      |
| 2,6-Dinitrotoluene   | <3.2    | ug/L  | 4.8    | 3.2  | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 606-20-2  |      |
| Di-n-octylphthalate  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 117-84-0  |      |
| 1,2-Diphenylhydrazine  | <3.5    | ug/L  | 9.5    | 3.5  | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 117-81-7  |      |
| Hexachloro-1,3-butadiene   | <2.9    | ug/L  | 4.8    | 2.9  | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 87-68-3   |      |
| Hexachlorobenzene  | <2.6    | ug/L  | 4.8    | 2.6  | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 118-74-1  |      |
| Hexachlorocyclopentadiene  | <23.8   | ug/L  | 23.8   | 23.8 | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 77-47-4   |      |
| Hexachloroethane   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 67-72-1   |      |
| Isophorone   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 78-59-1   |      |
| 2-Methylphenol(o-Cresol)   | <9.5    | ug/L  | 9.5    | 9.5  | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                                       | <19.0   | ug/L  | 19.0   | 19.0 | 1  | 06/29/20 10:44 | 06/29/20 21:30 |           |      |
| 2-Nitroaniline   | <5.5    | ug/L  | 9.5    | 5.5  | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 88-74-4   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-131**      **Lab ID: 50260974011**      Collected: 06/24/20 14:56      Received: 06/26/20 09:15      Matrix: Water

| Parameters   | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC Combo Water</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis |         |       |        |       |    |                |                |           |      |
| 3-Nitroaniline   | <4.8    | ug/L  | 9.5    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 99-09-2   |      |
| 4-Nitroaniline   | <4.6    | ug/L  | 9.5    | 4.6   | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 100-01-6  |      |
| Nitrobenzene   | <2.9    | ug/L  | 4.8    | 2.9   | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 98-95-3   |      |
| 2-Nitrophenol  | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 88-75-5   |      |
| 4-Nitrophenol  | <5.8    | ug/L  | 47.6   | 5.8   | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 100-02-7  |      |
| N-Nitrosodimethylamine   | <2.7    | ug/L  | 9.5    | 2.7   | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine   | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 621-64-7  |      |
| N-Nitrosodiphenylamine   | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 86-30-6   |      |
| Pentachlorophenol  | <1.8    | ug/L  | 19.0   | 1.8   | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 87-86-5   |      |
| Phenol   | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 108-95-2  |      |
| 1,2,4-Trichlorobenzene   | <1.0    | ug/L  | 9.5    | 1.0   | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 120-82-1  |      |
| 2,4,5-Trichlorophenol  | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 95-95-4   |      |
| 2,4,6-Trichlorophenol  | <3.8    | ug/L  | 4.8    | 3.8   | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| Nitrobenzene-d5 (S)  | 86      | %     | 42-109 |       | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 4165-60-0 |      |
| Phenol-d5 (S)  | 54      | %     | 11-56  |       | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 4165-62-2 |      |
| 2-Fluorophenol (S)   | 64      | %     | 16-75  |       | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)   | 96      | %     | 45-126 |       | 1  | 06/29/20 10:44 | 06/29/20 21:30 | 118-79-6  |      |
| <b>8260C SIM Volatile Organics</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8260C SIM/5030C<br>Pace Analytical Services - Melville                          |         |       |        |       |    |                |                |           |      |
| 1,4-Dioxane (p-Dioxane)  | 0.46    | ug/L  | 0.20   | 0.090 | 1  |                | 07/02/20 21:10 | 123-91-1  |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| 1,2-Dichlorobenzene-d4 (S)   | 104     | %     | 60-140 |       | 1  |                | 07/02/20 21:10 | 2199-69-1 |      |
| 4-Bromofluorobenzene (S)   | 122     | %     | 79-124 |       | 1  |                | 07/02/20 21:10 | 460-00-4  |      |
| <b>8260 MSV Low Level</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis                           |         |       |        |       |    |                |                |           |      |
| Acetone  | <50.0   | ug/L  | 50.0   | 50.0  | 1  |                | 06/30/20 07:35 | 67-64-1   |      |
| Acrylonitrile  | <2.0    | ug/L  | 2.0    | 2.0   | 1  |                | 06/30/20 07:35 | 107-13-1  |      |
| tert-Amylmethyl ether  | <5.0    | ug/L  | 5.0    | 5.0   | 1  |                | 06/30/20 07:35 | 994-05-8  | N2   |
| Benzene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 07:35 | 71-43-2   |      |
| Bromobenzene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 07:35 | 108-86-1  |      |
| Bromochloromethane   | <0.22   | ug/L  | 1.0    | 0.22  | 1  |                | 06/30/20 07:35 | 74-97-5   |      |
| Bromodichloromethane   | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 07:35 | 75-27-4   |      |
| Bromoform  | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 07:35 | 75-25-2   |      |
| Bromomethane   | <5.0    | ug/L  | 5.0    | 5.0   | 1  |                | 06/30/20 07:35 | 74-83-9   |      |
| 2-Butanone (MEK)   | <25.0   | ug/L  | 25.0   | 25.0  | 1  |                | 06/30/20 07:35 | 78-93-3   |      |
| tert-Butyl Alcohol   | <50.0   | ug/L  | 50.0   | 50.0  | 1  |                | 06/30/20 07:35 | 75-65-0   |      |
| n-Butylbenzene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 07:35 | 104-51-8  |      |
| sec-Butylbenzene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 07:35 | 135-98-8  |      |
| tert-Butylbenzene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 07:35 | 98-06-6   |      |
| Carbon disulfide   | <5.0    | ug/L  | 5.0    | 5.0   | 1  |                | 06/30/20 07:35 | 75-15-0   |      |
| Carbon tetrachloride   | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 07:35 | 56-23-5   |      |
| Chlorobenzene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 07:35 | 108-90-7  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-131**      **Lab ID: 50260974011**      Collected: 06/24/20 14:56      Received: 06/26/20 09:15      Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 07:35 | 75-00-3    |      |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:35 | 67-66-3    |      |
| Chloromethane                           | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 07:35 | 74-87-3    |      |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 06/30/20 07:35 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 06/30/20 07:35 | 96-12-8    |      |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 07:35 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 06/30/20 07:35 | 106-93-4   |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 07:35 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:35 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:35 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:35 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.40   | ug/L  | 100  | 0.40 | 1  |          | 06/30/20 07:35 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 07:35 | 75-71-8    | L1   |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:35 | 75-34-3    |      |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:35 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:35 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:35 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:35 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:35 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 07:35 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 07:35 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 07:35 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 07:35 | 108-20-3   | N2   |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:35 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 07:35 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 07:35 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 06/30/20 07:35 | 591-78-6   |      |
| Iodomethane                             | <0.51   | ug/L  | 5.0  | 0.51 | 1  |          | 06/30/20 07:35 | 74-88-4    |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 07:35 | 98-82-8    |      |
| p-Isopropyltoluene                      | <0.11   | ug/L  | 1.0  | 0.11 | 1  |          | 06/30/20 07:35 | 99-87-6    |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 07:35 | 75-09-2    |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0 | 5.0  | 1  |          | 06/30/20 07:35 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 06/30/20 07:35 | 108-10-1   |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 07:35 | 1634-04-4  |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 07:35 | 91-20-3    |      |
| n-Propylbenzene                         | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 07:35 | 103-65-1   |      |
| Styrene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:35 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:35 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:35 | 79-34-5    |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:35 | 127-18-4   |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0 | 90.0 | 1  |          | 06/30/20 07:35 | 109-99-9   | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:35 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 07:35 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 07:35 | 120-82-1   |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 07:35 | 71-55-6    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: MW-131**      **Lab ID: 50260974011**      Collected: 06/24/20 14:56      Received: 06/26/20 09:15      Matrix: Water

| Parameters  | Results      | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|---|--------------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>                                     |              |       |        |      |    |                |                |             |      |
| Analytical Method: EPA 5030B/8260                             |              |       |        |      |    |                |                |             |      |
| Pace Analytical Services - Indianapolis                       |              |       |        |      |    |                |                |             |      |
| 1,1,2-Trichloroethane   | <1.0         | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 07:35 | 79-00-5     |      |
| Trichloroethene   | <1.0         | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 07:35 | 79-01-6     |      |
| Trichlorofluoromethane  | <1.0         | ug/L  | 2.0    | 1.0  | 1  |                | 06/30/20 07:35 | 75-69-4     |      |
| 1,2,3-Trichloropropane  | <1.0         | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 07:35 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene  | <5.0         | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 07:35 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene  | <1.0         | ug/L  | 5.0    | 1.0  | 1  |                | 06/30/20 07:35 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene  | <1.0         | ug/L  | 5.0    | 1.0  | 1  |                | 06/30/20 07:35 | 108-67-8    |      |
| Vinyl chloride  | <1.0         | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 07:35 | 75-01-4     |      |
| m&p-Xylene  | <0.24        | ug/L  | 2.0    | 0.24 | 1  |                | 06/30/20 07:35 | 179601-23-1 |      |
| o-Xylene  | <b>0.18J</b> | ug/L  | 1.0    | 0.16 | 1  |                | 06/30/20 07:35 | 95-47-6     |      |
| <b>Surrogates</b>   |              |       |        |      |    |                |                |             |      |
| 4-Bromofluorobenzene (S)                                      | 102          | %     | 85-116 |      | 1  |                | 06/30/20 07:35 | 460-00-4    |      |
| Dibromofluoromethane (S)                                      | 100          | %     | 75-120 |      | 1  |                | 06/30/20 07:35 | 1868-53-7   |      |
| Toluene-d8 (S)  | 114          | %     | 83-111 |      | 1  |                | 06/30/20 07:35 | 2037-26-5   | S3   |
| <b>9012 Cyanide, Total</b>                                    |              |       |        |      |    |                |                |             |      |
| Analytical Method: EPA 9012      Preparation Method: EPA 9012 |              |       |        |      |    |                |                |             |      |
| Pace Analytical Services - Indianapolis                       |              |       |        |      |    |                |                |             |      |
| Cyanide   | <5.0         | ug/L  | 5.0    | 5.0  | 1  | 07/01/20 12:15 | 07/02/20 16:16 | 57-12-5     |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: DUP-1**      **Lab ID: 50260974012**      Collected: 06/23/20 00:00      Received: 06/26/20 09:15      Matrix: Water

| Parameters  | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|------|------|----|----------------|----------------|-----------|------|
| <b>6010 MET ICP</b>   |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 6010    Preparation Method: EPA 3010<br>Pace Analytical Services - Indianapolis        |         |       |      |      |    |                |                |           |      |
| Arsenic   | <5.0    | ug/L  | 5.0  | 5.0  | 1  | 06/30/20 05:43 | 07/07/20 09:29 | 7440-38-2 |      |
| Barium  | <100    | ug/L  | 100  | 100  | 1  | 06/30/20 05:43 | 07/07/20 09:29 | 7440-39-3 |      |
| Boron   | <300    | ug/L  | 300  | 300  | 1  | 06/30/20 05:43 | 07/07/20 09:29 | 7440-42-8 |      |
| Calcium   | 101000  | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:29 | 7440-70-2 |      |
| Chromium  | <10.0   | ug/L  | 10.0 | 10.0 | 1  | 06/30/20 05:43 | 07/07/20 09:29 | 7440-47-3 |      |
| Cobalt  | <20.0   | ug/L  | 20.0 | 20.0 | 1  | 06/30/20 05:43 | 07/07/20 09:29 | 7440-48-4 |      |
| Copper  | 8.3     | ug/L  | 4.0  | 4.0  | 1  | 06/30/20 05:43 | 07/07/20 09:29 | 7440-50-8 |      |
| Iron  | 1220    | ug/L  | 200  | 200  | 1  | 06/30/20 05:43 | 07/07/20 09:29 | 7439-89-6 |      |
| Magnesium   | 13700   | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:29 | 7439-95-4 |      |
| Manganese   | 784     | ug/L  | 50.0 | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 09:29 | 7439-96-5 |      |
| Molybdenum  | <50.0   | ug/L  | 50.0 | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 09:29 | 7439-98-7 |      |
| Nickel  | <20.0   | ug/L  | 20.0 | 20.0 | 1  | 06/30/20 05:43 | 07/07/20 09:29 | 7440-02-0 |      |
| Potassium   | 1910    | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:29 | 7440-09-7 |      |
| Sodium  | 22400   | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:29 | 7440-23-5 |      |
| Strontium   | <1000   | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:29 | 7440-24-6 |      |
| Zinc  | <50.0   | ug/L  | 50.0 | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 09:29 | 7440-66-6 |      |
| <b>6020 MET ICPMS</b>   |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 6020    Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis       |         |       |      |      |    |                |                |           |      |
| Aluminum  | 810     | ug/L  | 50.0 | 50.0 | 1  | 06/30/20 09:29 | 07/01/20 11:34 | 7429-90-5 |      |
| Antimony  | <2.0    | ug/L  | 2.0  | 2.0  | 1  | 06/30/20 09:29 | 07/01/20 11:34 | 7440-36-0 |      |
| Beryllium   | <1.0    | ug/L  | 1.0  | 1.0  | 1  | 06/30/20 09:29 | 07/01/20 11:34 | 7440-41-7 |      |
| Cadmium   | <1.0    | ug/L  | 1.0  | 1.0  | 1  | 06/30/20 09:29 | 07/01/20 11:34 | 7440-43-9 |      |
| Lead  | <3.0    | ug/L  | 3.0  | 3.0  | 1  | 06/30/20 09:29 | 07/01/20 11:34 | 7439-92-1 |      |
| Selenium  | <5.0    | ug/L  | 5.0  | 5.0  | 1  | 06/30/20 09:29 | 07/01/20 11:34 | 7782-49-2 |      |
| Silver  | <0.20   | ug/L  | 0.25 | 0.20 | 1  | 06/30/20 09:29 | 07/01/20 11:34 | 7440-22-4 |      |
| Thallium  | <2.0    | ug/L  | 2.0  | 2.0  | 1  | 06/30/20 09:29 | 07/01/20 11:34 | 7440-28-0 |      |
| Titanium  | 209     | ug/L  | 2.0  | 0.19 | 2  | 06/30/20 09:29 | 07/02/20 02:07 | 7440-32-6 | N2   |
| Vanadium  | <4.0    | ug/L  | 4.0  | 4.0  | 1  | 06/30/20 09:29 | 07/01/20 11:34 | 7440-62-2 |      |
| <b>7470 Mercury</b>   |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 7470    Preparation Method: EPA 7470<br>Pace Analytical Services - Indianapolis        |         |       |      |      |    |                |                |           |      |
| Mercury   | <0.12   | ug/L  | 0.20 | 0.12 | 1  | 07/01/20 11:50 | 07/01/20 23:39 | 7439-97-6 |      |
| <b>8270 100mL Combo RV</b>  |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis |         |       |      |      |    |                |                |           |      |
| Acenaphthene  | <4.8    | ug/L  | 4.8  | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 19:35 | 83-32-9   |      |
| Acenaphthylene  | <4.8    | ug/L  | 4.8  | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 19:35 | 208-96-8  |      |
| Anthracene  | <4.8    | ug/L  | 4.8  | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 19:35 | 120-12-7  |      |
| Benzo(a)anthracene  | <0.95   | ug/L  | 0.95 | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 19:35 | 56-55-3   |      |
| Benzo(a)pyrene  | <0.19   | ug/L  | 0.19 | 0.19 | 1  | 06/29/20 10:44 | 06/29/20 19:35 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <0.95   | ug/L  | 0.95 | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 19:35 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <0.95   | ug/L  | 0.95 | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 19:35 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <0.95   | ug/L  | 0.95 | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 19:35 | 207-08-9  |      |
| Chrysene  | <0.95   | ug/L  | 0.95 | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 19:35 | 218-01-9  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260974

**Sample: DUP-1**      **Lab ID: 50260974012**      Collected: 06/23/20 00:00      Received: 06/26/20 09:15      Matrix: Water

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 100mL Combo RV</b>   |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3510 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                            |         |       |        |      |    |                |                |           |      |
| Dibenz(a,h)anthracene  | <1.9    | ug/L  | 1.9    | 1.9  | 1  | 06/29/20 10:44 | 06/29/20 19:35 | 53-70-3   |      |
| Fluoranthene   | <0.95   | ug/L  | 0.95   | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 19:35 | 206-44-0  |      |
| Fluorene   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 19:35 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | <1.9    | ug/L  | 1.9    | 1.9  | 1  | 06/29/20 10:44 | 06/29/20 19:35 | 193-39-5  |      |
| 2-Methylnaphthalene  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 19:35 | 91-57-6   |      |
| Naphthalene  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 19:35 | 91-20-3   |      |
| Phenanthrene   | <1.9    | ug/L  | 1.9    | 1.9  | 1  | 06/29/20 10:44 | 06/29/20 19:35 | 85-01-8   |      |
| Pyrene   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 19:35 | 129-00-0  |      |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |           |      |
| 2-Fluorobiphenyl (S)   | 71      | %     | 32-107 |      | 1  | 06/29/20 10:44 | 06/29/20 19:35 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 84      | %     | 29-143 |      | 1  | 06/29/20 10:44 | 06/29/20 19:35 | 1718-51-0 |      |
| <b>8270 SVOC Combo Water</b>                                       |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3510        |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                            |         |       |        |      |    |                |                |           |      |
| 4-Bromophenylphenyl ether  | <3.4    | ug/L  | 9.5    | 3.4  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 101-55-3  |      |
| Butylbenzylphthalate   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 85-68-7   |      |
| Carbazole  | <9.5    | ug/L  | 9.5    | 9.5  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 86-74-8   |      |
| 4-Chloro-3-methylphenol  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane   | <3.6    | ug/L  | 9.5    | 3.6  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 111-91-1  |      |
| bis(2-Chloroethyl) ether   | <2.1    | ug/L  | 4.8    | 2.1  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                                       | <3.8    | ug/L  | 9.5    | 3.8  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 108-60-1  |      |
| 2-Chloronaphthalene  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 91-58-7   |      |
| 2-Chlorophenol   | <9.5    | ug/L  | 9.5    | 9.5  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether   | <2.7    | ug/L  | 9.5    | 2.7  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 7005-72-3 |      |
| Dibenzofuran   | <3.8    | ug/L  | 4.8    | 3.8  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 132-64-9  |      |
| 2,4-Dichlorophenol   | <9.5    | ug/L  | 9.5    | 9.5  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 120-83-2  |      |
| Diethylphthalate   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 84-66-2   |      |
| 2,4-Dimethylphenol   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 105-67-9  |      |
| Dimethylphthalate  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 131-11-3  |      |
| Di-n-butylphthalate  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | <19.0   | ug/L  | 19.0   | 19.0 | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 534-52-1  |      |
| 2,4-Dinitrophenol  | <3.7    | ug/L  | 47.6   | 3.7  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 51-28-5   |      |
| 2,4-Dinitrotoluene   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 121-14-2  |      |
| 2,6-Dinitrotoluene   | <3.2    | ug/L  | 4.8    | 3.2  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 606-20-2  |      |
| Di-n-octylphthalate  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 117-84-0  |      |
| 1,2-Diphenylhydrazine  | <3.5    | ug/L  | 9.5    | 3.5  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 117-81-7  |      |
| Hexachloro-1,3-butadiene   | <2.9    | ug/L  | 4.8    | 2.9  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 87-68-3   |      |
| Hexachlorobenzene  | <2.6    | ug/L  | 4.8    | 2.6  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 118-74-1  |      |
| Hexachlorocyclopentadiene  | <23.8   | ug/L  | 23.8   | 23.8 | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 77-47-4   |      |
| Hexachloroethane   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 67-72-1   |      |
| Isophorone   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 78-59-1   |      |
| 2-Methylphenol(o-Cresol)   | <9.5    | ug/L  | 9.5    | 9.5  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                                       | <19.0   | ug/L  | 19.0   | 19.0 | 1  | 06/29/20 10:44 | 06/29/20 20:09 |           |      |
| 2-Nitroaniline   | <5.5    | ug/L  | 9.5    | 5.5  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 88-74-4   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: DUP-1**      **Lab ID: 50260974012**      Collected: 06/23/20 00:00      Received: 06/26/20 09:15      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC Combo Water</b>                                |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3510 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| 3-Nitroaniline  | <4.8    | ug/L  | 9.5    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 99-09-2   |      |
| 4-Nitroaniline  | <4.6    | ug/L  | 9.5    | 4.6  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 100-01-6  |      |
| Nitrobenzene  | <2.9    | ug/L  | 4.8    | 2.9  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 98-95-3   |      |
| 2-Nitrophenol   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 88-75-5   |      |
| 4-Nitrophenol   | <5.8    | ug/L  | 47.6   | 5.8  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 100-02-7  |      |
| N-Nitrosodimethylamine                                      | <2.7    | ug/L  | 9.5    | 2.7  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine                                  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 621-64-7  |      |
| N-Nitrosodiphenylamine                                      | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 86-30-6   |      |
| Pentachlorophenol   | <1.8    | ug/L  | 19.0   | 1.8  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 87-86-5   |      |
| Phenol  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 108-95-2  |      |
| 1,2,4-Trichlorobenzene                                      | <1.0    | ug/L  | 9.5    | 1.0  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 120-82-1  |      |
| 2,4,5-Trichlorophenol                                       | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 95-95-4   |      |
| 2,4,6-Trichlorophenol                                       | <3.8    | ug/L  | 4.8    | 3.8  | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 88-06-2   |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |           |      |
| Nitrobenzene-d5 (S)   | 83      | %     | 42-109 |      | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 4165-60-0 |      |
| Phenol-d5 (S)   | 45      | %     | 11-56  |      | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 4165-62-2 |      |
| 2-Fluorophenol (S)  | 60      | %     | 16-75  |      | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)                                    | 92      | %     | 45-126 |      | 1  | 06/29/20 10:44 | 06/29/20 20:09 | 118-79-6  |      |
| <b>8260 MSV Low Level</b>                                   |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 5030B/8260                           |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                     |         |       |        |      |    |                |                |           |      |
| Acetone   | <50.0   | ug/L  | 50.0   | 50.0 | 1  |                | 06/30/20 08:08 | 67-64-1   |      |
| Acrylonitrile   | <2.0    | ug/L  | 2.0    | 2.0  | 1  |                | 06/30/20 08:08 | 107-13-1  |      |
| tert-Amylmethyl ether                                       | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 08:08 | 994-05-8  | N2   |
| Benzene   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 08:08 | 71-43-2   |      |
| Bromobenzene  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 08:08 | 108-86-1  |      |
| Bromochloromethane  | <0.22   | ug/L  | 1.0    | 0.22 | 1  |                | 06/30/20 08:08 | 74-97-5   |      |
| Bromodichloromethane  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 08:08 | 75-27-4   |      |
| Bromoform   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 08:08 | 75-25-2   |      |
| Bromomethane  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 08:08 | 74-83-9   |      |
| 2-Butanone (MEK)  | <25.0   | ug/L  | 25.0   | 25.0 | 1  |                | 06/30/20 08:08 | 78-93-3   |      |
| tert-Butyl Alcohol  | <50.0   | ug/L  | 50.0   | 50.0 | 1  |                | 06/30/20 08:08 | 75-65-0   |      |
| n-Butylbenzene  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 08:08 | 104-51-8  |      |
| sec-Butylbenzene  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 08:08 | 135-98-8  |      |
| tert-Butylbenzene   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 08:08 | 98-06-6   |      |
| Carbon disulfide  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 08:08 | 75-15-0   |      |
| Carbon tetrachloride  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 08:08 | 56-23-5   |      |
| Chlorobenzene   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 08:08 | 108-90-7  |      |
| Chloroethane  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 08:08 | 75-00-3   |      |
| Chloroform  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 08:08 | 67-66-3   |      |
| Chloromethane   | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 08:08 | 74-87-3   |      |
| Cyclohexane   | <10.0   | ug/L  | 10.0   | 10.0 | 1  |                | 06/30/20 08:08 | 110-82-7  | N2   |
| 1,2-Dibromo-3-chloropropane                                 | <0.25   | ug/L  | 0.50   | 0.25 | 1  |                | 06/30/20 08:08 | 96-12-8   |      |
| Dibromochloromethane  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 08:08 | 124-48-1  |      |
| 1,2-Dibromoethane (EDB)                                     | <0.23   | ug/L  | 0.50   | 0.23 | 1  |                | 06/30/20 08:08 | 106-93-4  |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: DUP-1**      **Lab ID: 50260974012**      Collected: 06/23/20 00:00      Received: 06/26/20 09:15      Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 08:08 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:08 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:08 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:08 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.40   | ug/L  | 100  | 0.40 | 1  |          | 06/30/20 08:08 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 08:08 | 75-71-8    | L1   |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:08 | 75-34-3    |      |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:08 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:08 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:08 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:08 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:08 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 08:08 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 08:08 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 08:08 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 08:08 | 108-20-3   | N2   |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:08 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 08:08 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 08:08 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 06/30/20 08:08 | 591-78-6   |      |
| Iodomethane                             | <0.51   | ug/L  | 5.0  | 0.51 | 1  |          | 06/30/20 08:08 | 74-88-4    |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 08:08 | 98-82-8    |      |
| p-Isopropyltoluene                      | <0.11   | ug/L  | 1.0  | 0.11 | 1  |          | 06/30/20 08:08 | 99-87-6    |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 08:08 | 75-09-2    |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0 | 5.0  | 1  |          | 06/30/20 08:08 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 06/30/20 08:08 | 108-10-1   |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 08:08 | 1634-04-4  |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 08:08 | 91-20-3    |      |
| n-Propylbenzene                         | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 08:08 | 103-65-1   |      |
| Styrene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:08 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:08 | 630-20-6   |      |
| 1,1,1,2,2-Tetrachloroethane             | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:08 | 79-34-5    |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:08 | 127-18-4   |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0 | 90.0 | 1  |          | 06/30/20 08:08 | 109-99-9   | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:08 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 08:08 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 08:08 | 120-82-1   |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:08 | 71-55-6    |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:08 | 79-00-5    |      |
| Trichloroethene                         | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:08 | 79-01-6    |      |
| Trichlorofluoromethane                  | <1.0    | ug/L  | 2.0  | 1.0  | 1  |          | 06/30/20 08:08 | 75-69-4    |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:08 | 96-18-4    |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 08:08 | 526-73-8   | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0  | 1.0  | 1  |          | 06/30/20 08:08 | 95-63-6    |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0  | 1.0  | 1  |          | 06/30/20 08:08 | 108-67-8   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: DUP-1**      **Lab ID: 50260974012**      Collected: 06/23/20 00:00      Received: 06/26/20 09:15      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 08:08 | 75-01-4     |      |
| m&p-Xylene                              | <0.24   | ug/L  | 2.0    | 0.24 | 1  |          | 06/30/20 08:08 | 179601-23-1 |      |
| o-Xylene                                | <0.16   | ug/L  | 1.0    | 0.16 | 1  |          | 06/30/20 08:08 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 101     | %     | 85-116 |      | 1  |          | 06/30/20 08:08 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 101     | %     | 75-120 |      | 1  |          | 06/30/20 08:08 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 106     | %     | 83-111 |      | 1  |          | 06/30/20 08:08 | 2037-26-5   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: DUP-3**      **Lab ID: 50260974013**      Collected: 06/24/20 00:00      Received: 06/26/20 09:15      Matrix: Water

| Parameters  | Results | Units | PQL  | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|---------|-------|------|------|----|----------------|----------------|-----------|------|
| <b>6010 MET ICP</b>   |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 6010    Preparation Method: EPA 3010<br>Pace Analytical Services - Indianapolis        |         |       |      |      |    |                |                |           |      |
| Arsenic   | <5.0    | ug/L  | 5.0  | 5.0  | 1  | 06/30/20 05:43 | 07/07/20 09:31 | 7440-38-2 |      |
| Barium  | <100    | ug/L  | 100  | 100  | 1  | 06/30/20 05:43 | 07/07/20 09:31 | 7440-39-3 |      |
| Boron   | <300    | ug/L  | 300  | 300  | 1  | 06/30/20 05:43 | 07/07/20 09:31 | 7440-42-8 |      |
| Calcium   | 107000  | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:31 | 7440-70-2 |      |
| Chromium  | <10.0   | ug/L  | 10.0 | 10.0 | 1  | 06/30/20 05:43 | 07/07/20 09:31 | 7440-47-3 |      |
| Cobalt  | <20.0   | ug/L  | 20.0 | 20.0 | 1  | 06/30/20 05:43 | 07/07/20 09:31 | 7440-48-4 |      |
| Copper  | 6.8     | ug/L  | 4.0  | 4.0  | 1  | 06/30/20 05:43 | 07/07/20 09:31 | 7440-50-8 |      |
| Iron  | 830     | ug/L  | 200  | 200  | 1  | 06/30/20 05:43 | 07/07/20 09:31 | 7439-89-6 |      |
| Magnesium   | 16300   | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:31 | 7439-95-4 |      |
| Manganese   | <50.0   | ug/L  | 50.0 | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 09:31 | 7439-96-5 |      |
| Molybdenum  | <50.0   | ug/L  | 50.0 | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 09:31 | 7439-98-7 |      |
| Nickel  | <20.0   | ug/L  | 20.0 | 20.0 | 1  | 06/30/20 05:43 | 07/07/20 09:31 | 7440-02-0 |      |
| Potassium   | 15700   | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:31 | 7440-09-7 |      |
| Sodium  | 13600   | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:31 | 7440-23-5 |      |
| Strontium   | <1000   | ug/L  | 1000 | 1000 | 1  | 06/30/20 05:43 | 07/07/20 09:31 | 7440-24-6 |      |
| Zinc  | <50.0   | ug/L  | 50.0 | 50.0 | 1  | 06/30/20 05:43 | 07/07/20 09:31 | 7440-66-6 |      |
| <b>6020 MET ICPMS</b>   |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 6020    Preparation Method: EPA 200.2<br>Pace Analytical Services - Indianapolis       |         |       |      |      |    |                |                |           |      |
| Aluminum  | 495     | ug/L  | 50.0 | 50.0 | 1  | 06/30/20 09:29 | 07/01/20 11:39 | 7429-90-5 |      |
| Antimony  | <2.0    | ug/L  | 2.0  | 2.0  | 1  | 06/30/20 09:29 | 07/01/20 11:39 | 7440-36-0 |      |
| Beryllium   | <1.0    | ug/L  | 1.0  | 1.0  | 1  | 06/30/20 09:29 | 07/01/20 11:39 | 7440-41-7 |      |
| Cadmium   | <1.0    | ug/L  | 1.0  | 1.0  | 1  | 06/30/20 09:29 | 07/01/20 11:39 | 7440-43-9 |      |
| Lead  | <3.0    | ug/L  | 3.0  | 3.0  | 1  | 06/30/20 09:29 | 07/01/20 11:39 | 7439-92-1 |      |
| Selenium  | <5.0    | ug/L  | 5.0  | 5.0  | 1  | 06/30/20 09:29 | 07/01/20 11:39 | 7782-49-2 |      |
| Silver  | <0.20   | ug/L  | 0.25 | 0.20 | 1  | 06/30/20 09:29 | 07/01/20 11:39 | 7440-22-4 |      |
| Thallium  | <2.0    | ug/L  | 2.0  | 2.0  | 1  | 06/30/20 09:29 | 07/01/20 11:39 | 7440-28-0 |      |
| Titanium  | 214     | ug/L  | 2.0  | 0.19 | 2  | 06/30/20 09:29 | 07/02/20 02:11 | 7440-32-6 | N2   |
| Vanadium  | 7.2     | ug/L  | 4.0  | 4.0  | 1  | 06/30/20 09:29 | 07/01/20 11:39 | 7440-62-2 |      |
| <b>7470 Mercury</b>   |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 7470    Preparation Method: EPA 7470<br>Pace Analytical Services - Indianapolis        |         |       |      |      |    |                |                |           |      |
| Mercury   | <0.12   | ug/L  | 0.20 | 0.12 | 1  | 07/01/20 11:50 | 07/01/20 23:41 | 7439-97-6 |      |
| <b>8270 100mL Combo RV</b>  |         |       |      |      |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis |         |       |      |      |    |                |                |           |      |
| Acenaphthene  | <4.8    | ug/L  | 4.8  | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:44 | 83-32-9   |      |
| Acenaphthylene  | <4.8    | ug/L  | 4.8  | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:44 | 208-96-8  |      |
| Anthracene  | <4.8    | ug/L  | 4.8  | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:44 | 120-12-7  |      |
| Benzo(a)anthracene  | <0.95   | ug/L  | 0.95 | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 20:44 | 56-55-3   |      |
| Benzo(a)pyrene  | <0.19   | ug/L  | 0.19 | 0.19 | 1  | 06/29/20 10:44 | 06/29/20 20:44 | 50-32-8   |      |
| Benzo(b)fluoranthene  | <0.95   | ug/L  | 0.95 | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 20:44 | 205-99-2  |      |
| Benzo(g,h,i)perylene  | <0.95   | ug/L  | 0.95 | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 20:44 | 191-24-2  |      |
| Benzo(k)fluoranthene  | <0.95   | ug/L  | 0.95 | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 20:44 | 207-08-9  |      |
| Chrysene  | <0.95   | ug/L  | 0.95 | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 20:44 | 218-01-9  |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: DUP-3**      **Lab ID: 50260974013**      Collected: 06/24/20 00:00      Received: 06/26/20 09:15      Matrix: Water

| Parameters   | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|-----------|------|
| <b>8270 100mL Combo RV</b>   |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3510 |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                            |         |       |        |      |    |                |                |           |      |
| Dibenz(a,h)anthracene  | <1.9    | ug/L  | 1.9    | 1.9  | 1  | 06/29/20 10:44 | 06/29/20 20:44 | 53-70-3   |      |
| Fluoranthene   | <0.95   | ug/L  | 0.95   | 0.95 | 1  | 06/29/20 10:44 | 06/29/20 20:44 | 206-44-0  |      |
| Fluorene   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:44 | 86-73-7   |      |
| Indeno(1,2,3-cd)pyrene   | <1.9    | ug/L  | 1.9    | 1.9  | 1  | 06/29/20 10:44 | 06/29/20 20:44 | 193-39-5  |      |
| 2-Methylnaphthalene  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:44 | 91-57-6   |      |
| Naphthalene  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:44 | 91-20-3   |      |
| Phenanthrene   | <1.9    | ug/L  | 1.9    | 1.9  | 1  | 06/29/20 10:44 | 06/29/20 20:44 | 85-01-8   |      |
| Pyrene   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 20:44 | 129-00-0  |      |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |           |      |
| 2-Fluorobiphenyl (S)   | 58      | %     | 32-107 |      | 1  | 06/29/20 10:44 | 06/29/20 20:44 | 321-60-8  |      |
| p-Terphenyl-d14 (S)  | 78      | %     | 29-143 |      | 1  | 06/29/20 10:44 | 06/29/20 20:44 | 1718-51-0 |      |
| <b>8270 SVOC Combo Water</b>                                       |         |       |        |      |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3510        |         |       |        |      |    |                |                |           |      |
| Pace Analytical Services - Indianapolis                            |         |       |        |      |    |                |                |           |      |
| 4-Bromophenylphenyl ether  | <3.4    | ug/L  | 9.5    | 3.4  | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 101-55-3  |      |
| Butylbenzylphthalate   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 85-68-7   |      |
| Carbazole  | <9.5    | ug/L  | 9.5    | 9.5  | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 86-74-8   |      |
| 4-Chloro-3-methylphenol  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 59-50-7   |      |
| bis(2-Chloroethoxy)methane   | <3.6    | ug/L  | 9.5    | 3.6  | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 111-91-1  |      |
| bis(2-Chloroethyl) ether   | <2.1    | ug/L  | 4.8    | 2.1  | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 111-44-4  |      |
| bis(2-Chloroisopropyl) ether                                       | <3.8    | ug/L  | 9.5    | 3.8  | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 108-60-1  |      |
| 2-Chloronaphthalene  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 91-58-7   |      |
| 2-Chlorophenol   | <9.5    | ug/L  | 9.5    | 9.5  | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 95-57-8   |      |
| 4-Chlorophenylphenyl ether   | <2.7    | ug/L  | 9.5    | 2.7  | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 7005-72-3 |      |
| Dibenzofuran   | <3.8    | ug/L  | 4.8    | 3.8  | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 132-64-9  |      |
| 2,4-Dichlorophenol   | <9.5    | ug/L  | 9.5    | 9.5  | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 120-83-2  |      |
| Diethylphthalate   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 84-66-2   |      |
| 2,4-Dimethylphenol   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 105-67-9  |      |
| Dimethylphthalate  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 131-11-3  |      |
| Di-n-butylphthalate  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 84-74-2   |      |
| 4,6-Dinitro-2-methylphenol   | <19.0   | ug/L  | 19.0   | 19.0 | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 534-52-1  |      |
| 2,4-Dinitrophenol  | <3.7    | ug/L  | 47.6   | 3.7  | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 51-28-5   |      |
| 2,4-Dinitrotoluene   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 121-14-2  |      |
| 2,6-Dinitrotoluene   | <3.2    | ug/L  | 4.8    | 3.2  | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 606-20-2  |      |
| Di-n-octylphthalate  | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 117-84-0  |      |
| 1,2-Diphenylhydrazine  | <3.5    | ug/L  | 9.5    | 3.5  | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 122-66-7  |      |
| bis(2-Ethylhexyl)phthalate   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 117-81-7  |      |
| Hexachloro-1,3-butadiene   | <2.9    | ug/L  | 4.8    | 2.9  | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 87-68-3   |      |
| Hexachlorobenzene  | <2.6    | ug/L  | 4.8    | 2.6  | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 118-74-1  |      |
| Hexachlorocyclopentadiene  | <23.8   | ug/L  | 23.8   | 23.8 | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 77-47-4   |      |
| Hexachloroethane   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 67-72-1   |      |
| Isophorone   | <4.8    | ug/L  | 4.8    | 4.8  | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 78-59-1   |      |
| 2-Methylphenol(o-Cresol)   | <9.5    | ug/L  | 9.5    | 9.5  | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 95-48-7   |      |
| 3&4-Methylphenol(m&p Cresol)                                       | <19.0   | ug/L  | 19.0   | 19.0 | 1  | 06/29/20 10:44 | 06/29/20 21:46 |           |      |
| 2-Nitroaniline   | <5.5    | ug/L  | 9.5    | 5.5  | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 88-74-4   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: DUP-3**      **Lab ID: 50260974013**      Collected: 06/24/20 00:00      Received: 06/26/20 09:15      Matrix: Water

| Parameters   | Results | Units | PQL    | MDL   | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| <b>8270 SVOC Combo Water</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8270    Preparation Method: EPA 3510<br>Pace Analytical Services - Indianapolis |         |       |        |       |    |                |                |           |      |
| 3-Nitroaniline   | <4.8    | ug/L  | 9.5    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 99-09-2   |      |
| 4-Nitroaniline   | <4.6    | ug/L  | 9.5    | 4.6   | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 100-01-6  |      |
| Nitrobenzene   | <2.9    | ug/L  | 4.8    | 2.9   | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 98-95-3   |      |
| 2-Nitrophenol  | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 88-75-5   |      |
| 4-Nitrophenol  | <5.8    | ug/L  | 47.6   | 5.8   | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 100-02-7  |      |
| N-Nitrosodimethylamine   | <2.7    | ug/L  | 9.5    | 2.7   | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 62-75-9   |      |
| N-Nitroso-di-n-propylamine   | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 621-64-7  |      |
| N-Nitrosodiphenylamine   | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 86-30-6   |      |
| Pentachlorophenol  | <1.8    | ug/L  | 19.0   | 1.8   | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 87-86-5   |      |
| Phenol   | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 108-95-2  |      |
| 1,2,4-Trichlorobenzene   | <1.0    | ug/L  | 9.5    | 1.0   | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 120-82-1  |      |
| 2,4,5-Trichlorophenol  | <4.8    | ug/L  | 4.8    | 4.8   | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 95-95-4   |      |
| 2,4,6-Trichlorophenol  | <3.8    | ug/L  | 4.8    | 3.8   | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 88-06-2   |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| Nitrobenzene-d5 (S)  | 64      | %     | 42-109 |       | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 4165-60-0 |      |
| Phenol-d5 (S)  | 39      | %     | 11-56  |       | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 4165-62-2 |      |
| 2-Fluorophenol (S)   | 46      | %     | 16-75  |       | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 367-12-4  |      |
| 2,4,6-Tribromophenol (S)   | 87      | %     | 45-126 |       | 1  | 06/29/20 10:44 | 06/29/20 21:46 | 118-79-6  |      |
| <b>8260C SIM Volatile Organics</b>   |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 8260C SIM/5030C<br>Pace Analytical Services - Melville                          |         |       |        |       |    |                |                |           |      |
| 1,4-Dioxane (p-Dioxane)  | <0.090  | ug/L  | 0.20   | 0.090 | 1  |                | 07/02/20 20:43 | 123-91-1  |      |
| <b>Surrogates</b>  |         |       |        |       |    |                |                |           |      |
| 1,2-Dichlorobenzene-d4 (S)   | 103     | %     | 60-140 |       | 1  |                | 07/02/20 20:43 | 2199-69-1 |      |
| 4-Bromofluorobenzene (S)   | 122     | %     | 79-124 |       | 1  |                | 07/02/20 20:43 | 460-00-4  |      |
| <b>8260 MSV Low Level</b>  |         |       |        |       |    |                |                |           |      |
| Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis                           |         |       |        |       |    |                |                |           |      |
| Acetone  | <50.0   | ug/L  | 50.0   | 50.0  | 1  |                | 06/30/20 08:41 | 67-64-1   |      |
| Acrylonitrile  | <2.0    | ug/L  | 2.0    | 2.0   | 1  |                | 06/30/20 08:41 | 107-13-1  |      |
| tert-Amylmethyl ether  | <5.0    | ug/L  | 5.0    | 5.0   | 1  |                | 06/30/20 08:41 | 994-05-8  | N2   |
| Benzene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 08:41 | 71-43-2   |      |
| Bromobenzene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 08:41 | 108-86-1  |      |
| Bromochloromethane   | <0.22   | ug/L  | 1.0    | 0.22  | 1  |                | 06/30/20 08:41 | 74-97-5   |      |
| Bromodichloromethane   | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 08:41 | 75-27-4   |      |
| Bromoform  | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 08:41 | 75-25-2   |      |
| Bromomethane   | <5.0    | ug/L  | 5.0    | 5.0   | 1  |                | 06/30/20 08:41 | 74-83-9   |      |
| 2-Butanone (MEK)   | <25.0   | ug/L  | 25.0   | 25.0  | 1  |                | 06/30/20 08:41 | 78-93-3   |      |
| tert-Butyl Alcohol   | <50.0   | ug/L  | 50.0   | 50.0  | 1  |                | 06/30/20 08:41 | 75-65-0   |      |
| n-Butylbenzene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 08:41 | 104-51-8  |      |
| sec-Butylbenzene   | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 08:41 | 135-98-8  |      |
| tert-Butylbenzene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 08:41 | 98-06-6   |      |
| Carbon disulfide   | <5.0    | ug/L  | 5.0    | 5.0   | 1  |                | 06/30/20 08:41 | 75-15-0   |      |
| Carbon tetrachloride   | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 08:41 | 56-23-5   |      |
| Chlorobenzene  | <1.0    | ug/L  | 1.0    | 1.0   | 1  |                | 06/30/20 08:41 | 108-90-7  |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260974

**Sample: DUP-3**      **Lab ID: 50260974013**      Collected: 06/24/20 00:00      Received: 06/26/20 09:15      Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |      |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 08:41 | 75-00-3    |      |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:41 | 67-66-3    |      |
| Chloromethane                           | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 08:41 | 74-87-3    |      |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 06/30/20 08:41 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 06/30/20 08:41 | 96-12-8    |      |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 08:41 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 06/30/20 08:41 | 106-93-4   |      |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 08:41 | 74-95-3    |      |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:41 | 95-50-1    |      |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:41 | 541-73-1   |      |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:41 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene             | <0.40   | ug/L  | 100  | 0.40 | 1  |          | 06/30/20 08:41 | 110-57-6   |      |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 08:41 | 75-71-8    | L1   |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:41 | 75-34-3    |      |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:41 | 107-06-2   |      |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:41 | 75-35-4    |      |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:41 | 156-59-2   |      |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:41 | 156-60-5   |      |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:41 | 78-87-5    |      |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 08:41 | 10061-01-5 |      |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 08:41 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 08:41 | 60-29-7    |      |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 08:41 | 108-20-3   | N2   |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:41 | 100-41-4   |      |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 08:41 | 637-92-3   | N2   |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 08:41 | 67-72-1    | N2   |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 06/30/20 08:41 | 591-78-6   |      |
| Iodomethane                             | <0.51   | ug/L  | 5.0  | 0.51 | 1  |          | 06/30/20 08:41 | 74-88-4    |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 08:41 | 98-82-8    |      |
| p-Isopropyltoluene                      | <0.11   | ug/L  | 1.0  | 0.11 | 1  |          | 06/30/20 08:41 | 99-87-6    |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 08:41 | 75-09-2    |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0 | 5.0  | 1  |          | 06/30/20 08:41 | 91-57-6    |      |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 06/30/20 08:41 | 108-10-1   |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 08:41 | 1634-04-4  |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 08:41 | 91-20-3    |      |
| n-Propylbenzene                         | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 08:41 | 103-65-1   |      |
| Styrene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:41 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:41 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:41 | 79-34-5    |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:41 | 127-18-4   |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0 | 90.0 | 1  |          | 06/30/20 08:41 | 109-99-9   | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:41 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 08:41 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 08:41 | 120-82-1   |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 08:41 | 71-55-6    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: DUP-3**      **Lab ID: 50260974013**      Collected: 06/24/20 00:00      Received: 06/26/20 09:15      Matrix: Water

| Parameters  | Results | Units | PQL    | MDL  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>                                     |         |       |        |      |    |                |                |             |      |
| Analytical Method: EPA 5030B/8260                             |         |       |        |      |    |                |                |             |      |
| Pace Analytical Services - Indianapolis                       |         |       |        |      |    |                |                |             |      |
| 1,1,2-Trichloroethane   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 08:41 | 79-00-5     |      |
| Trichloroethene   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 08:41 | 79-01-6     |      |
| Trichlorofluoromethane  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |                | 06/30/20 08:41 | 75-69-4     |      |
| 1,2,3-Trichloropropane  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 08:41 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |                | 06/30/20 08:41 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |                | 06/30/20 08:41 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |                | 06/30/20 08:41 | 108-67-8    |      |
| Vinyl chloride  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |                | 06/30/20 08:41 | 75-01-4     |      |
| m&p-Xylene  | <0.24   | ug/L  | 2.0    | 0.24 | 1  |                | 06/30/20 08:41 | 179601-23-1 |      |
| o-Xylene  | <0.16   | ug/L  | 1.0    | 0.16 | 1  |                | 06/30/20 08:41 | 95-47-6     |      |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |             |      |
| 4-Bromofluorobenzene (S)                                      | 101     | %     | 85-116 |      | 1  |                | 06/30/20 08:41 | 460-00-4    |      |
| Dibromofluoromethane (S)                                      | 101     | %     | 75-120 |      | 1  |                | 06/30/20 08:41 | 1868-53-7   |      |
| Toluene-d8 (S)  | 106     | %     | 83-111 |      | 1  |                | 06/30/20 08:41 | 2037-26-5   |      |
| <b>9012 Cyanide, Total</b>                                    |         |       |        |      |    |                |                |             |      |
| Analytical Method: EPA 9012      Preparation Method: EPA 9012 |         |       |        |      |    |                |                |             |      |
| Pace Analytical Services - Indianapolis                       |         |       |        |      |    |                |                |             |      |
| Cyanide   | <5.0    | ug/L  | 5.0    | 5.0  | 1  | 07/01/20 12:15 | 07/02/20 16:18 | 57-12-5     |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: Trip Blank**      **Lab ID: 50260974014**      Collected: 06/23/20 08:00      Received: 06/26/20 09:15      Matrix: Water

| Parameters                  | Results | Units  | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|--|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV Low Level</b>   |         | Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Indianapolis |      |      |    |          |                |            |      |
| Acetone                     | <50.0   | ug/L   | 50.0 | 50.0 | 1  |          | 06/30/20 09:14 | 67-64-1    |      |
| Acrylonitrile               | <2.0    | ug/L   | 2.0  | 2.0  | 1  |          | 06/30/20 09:14 | 107-13-1   |      |
| tert-Amylmethyl ether       | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 09:14 | 994-05-8   | N2   |
| Benzene                     | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 09:14 | 71-43-2    |      |
| Bromobenzene                | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 09:14 | 108-86-1   |      |
| Bromochloromethane          | <0.22   | ug/L   | 1.0  | 0.22 | 1  |          | 06/30/20 09:14 | 74-97-5    |      |
| Bromodichloromethane        | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 09:14 | 75-27-4    |      |
| Bromoform                   | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 09:14 | 75-25-2    |      |
| Bromomethane                | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 09:14 | 74-83-9    |      |
| 2-Butanone (MEK)            | <25.0   | ug/L   | 25.0 | 25.0 | 1  |          | 06/30/20 09:14 | 78-93-3    |      |
| tert-Butyl Alcohol          | <50.0   | ug/L   | 50.0 | 50.0 | 1  |          | 06/30/20 09:14 | 75-65-0    |      |
| n-Butylbenzene              | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 09:14 | 104-51-8   |      |
| sec-Butylbenzene            | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 09:14 | 135-98-8   |      |
| tert-Butylbenzene           | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 09:14 | 98-06-6    |      |
| Carbon disulfide            | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 09:14 | 75-15-0    |      |
| Carbon tetrachloride        | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 09:14 | 56-23-5    |      |
| Chlorobenzene               | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 09:14 | 108-90-7   |      |
| Chloroethane                | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 09:14 | 75-00-3    |      |
| Chloroform                  | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 09:14 | 67-66-3    |      |
| Chloromethane               | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 09:14 | 74-87-3    |      |
| Cyclohexane                 | <10.0   | ug/L   | 10.0 | 10.0 | 1  |          | 06/30/20 09:14 | 110-82-7   | N2   |
| 1,2-Dibromo-3-chloropropane | <0.25   | ug/L   | 0.50 | 0.25 | 1  |          | 06/30/20 09:14 | 96-12-8    |      |
| Dibromochloromethane        | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 09:14 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | <0.23   | ug/L   | 0.50 | 0.23 | 1  |          | 06/30/20 09:14 | 106-93-4   |      |
| Dibromomethane              | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 09:14 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 09:14 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 09:14 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 09:14 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene | <0.40   | ug/L   | 100  | 0.40 | 1  |          | 06/30/20 09:14 | 110-57-6   |      |
| Dichlorodifluoromethane     | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 09:14 | 75-71-8    | L1   |
| 1,1-Dichloroethane          | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 09:14 | 75-34-3    |      |
| 1,2-Dichloroethane          | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 09:14 | 107-06-2   |      |
| 1,1-Dichloroethene          | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 09:14 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 09:14 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 09:14 | 156-60-5   |      |
| 1,2-Dichloropropane         | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 09:14 | 78-87-5    |      |
| cis-1,3-Dichloropropene     | <100    | ug/L   | 100  | 100  | 1  |          | 06/30/20 09:14 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | <100    | ug/L   | 100  | 100  | 1  |          | 06/30/20 09:14 | 10061-02-6 |      |
| Diethyl ether (Ethyl ether) | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 09:14 | 60-29-7    |      |
| Diisopropyl ether           | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 09:14 | 108-20-3   | N2   |
| Ethylbenzene                | <1.0    | ug/L   | 1.0  | 1.0  | 1  |          | 06/30/20 09:14 | 100-41-4   |      |
| Ethyl-tert-butyl ether      | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 09:14 | 637-92-3   | N2   |
| Hexachloroethane            | <5.0    | ug/L   | 5.0  | 5.0  | 1  |          | 06/30/20 09:14 | 67-72-1    | N2   |
| 2-Hexanone                  | <50.0   | ug/L   | 50.0 | 50.0 | 1  |          | 06/30/20 09:14 | 591-78-6   |      |
| Iodomethane                 | <0.51   | ug/L   | 5.0  | 0.51 | 1  |          | 06/30/20 09:14 | 74-88-4    |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: Trip Blank**      **Lab ID: 50260974014**      Collected: 06/23/20 08:00      Received: 06/26/20 09:15      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 09:14 | 98-82-8     |      |
| p-Isopropyltoluene                      | <0.11   | ug/L  | 1.0    | 0.11 | 1  |          | 06/30/20 09:14 | 99-87-6     |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 09:14 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0   | 5.0  | 1  |          | 06/30/20 09:14 | 91-57-6     |      |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0   | 50.0 | 1  |          | 06/30/20 09:14 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 09:14 | 1634-04-4   |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 09:14 | 91-20-3     |      |
| n-Propylbenzene                         | <100    | ug/L  | 100    | 100  | 1  |          | 06/30/20 09:14 | 103-65-1    |      |
| Styrene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 09:14 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 09:14 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 09:14 | 79-34-5     |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 09:14 | 127-18-4    |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0   | 90.0 | 1  |          | 06/30/20 09:14 | 109-99-9    | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 09:14 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 09:14 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 09:14 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 09:14 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 09:14 | 79-00-5     |      |
| Trichloroethene                         | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 09:14 | 79-01-6     |      |
| Trichlorofluoromethane                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 06/30/20 09:14 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 09:14 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 09:14 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 06/30/20 09:14 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 06/30/20 09:14 | 108-67-8    |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 09:14 | 75-01-4     |      |
| m&p-Xylene                              | <0.24   | ug/L  | 2.0    | 0.24 | 1  |          | 06/30/20 09:14 | 179601-23-1 |      |
| o-Xylene                                | <0.16   | ug/L  | 1.0    | 0.16 | 1  |          | 06/30/20 09:14 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 102     | %     | 85-116 |      | 1  |          | 06/30/20 09:14 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 101     | %     | 75-120 |      | 1  |          | 06/30/20 09:14 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 110     | %     | 83-111 |      | 1  |          | 06/30/20 09:14 | 2037-26-5   |      |

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## ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260974

Sample: Field Blank Lab ID: 50260974015 Collected: 06/23/20 11:00 Received: 06/26/20 09:15 Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual  |
|---|---------|-------|------|------|----|----------|----------------|------------|-------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |       |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |       |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |       |
| Acetone                                 | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 06/30/20 05:39 | 67-64-1    |       |
| Acrylonitrile                           | <2.0    | ug/L  | 2.0  | 2.0  | 1  |          | 06/30/20 05:39 | 107-13-1   |       |
| tert-Amylmethyl ether                   | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 05:39 | 994-05-8   | N2    |
| Benzene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:39 | 71-43-2    |       |
| Bromobenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:39 | 108-86-1   |       |
| Bromochloromethane                      | <0.59   | ug/L  | 1.0  | 0.59 | 1  |          | 06/30/20 05:39 | 74-97-5    |       |
| Bromodichloromethane                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:39 | 75-27-4    |       |
| Bromoform                               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:39 | 75-25-2    |       |
| Bromomethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 05:39 | 74-83-9    |       |
| 2-Butanone (MEK)                        | <25.0   | ug/L  | 25.0 | 25.0 | 1  |          | 06/30/20 05:39 | 78-93-3    |       |
| tert-Butyl Alcohol                      | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 06/30/20 05:39 | 75-65-0    |       |
| n-Butylbenzene                          | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:39 | 104-51-8   |       |
| sec-Butylbenzene                        | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:39 | 135-98-8   |       |
| tert-Butylbenzene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:39 | 98-06-6    |       |
| Carbon disulfide                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 05:39 | 75-15-0    | L1    |
| Carbon tetrachloride                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:39 | 56-23-5    |       |
| Chlorobenzene                           | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:39 | 108-90-7   |       |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 05:39 | 75-00-3    |       |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:39 | 67-66-3    |       |
| Chloromethane                           | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 05:39 | 74-87-3    |       |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 06/30/20 05:39 | 110-82-7   | L1,N2 |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 06/30/20 05:39 | 96-12-8    |       |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 05:39 | 124-48-1   |       |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 06/30/20 05:39 | 106-93-4   |       |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 05:39 | 74-95-3    |       |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:39 | 95-50-1    |       |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:39 | 541-73-1   |       |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:39 | 106-46-7   |       |
| trans-1,4-Dichloro-2-butene             | <0.82   | ug/L  | 100  | 0.82 | 1  |          | 06/30/20 05:39 | 110-57-6   |       |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 05:39 | 75-71-8    | L1    |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:39 | 75-34-3    |       |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:39 | 107-06-2   |       |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:39 | 75-35-4    |       |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:39 | 156-59-2   |       |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:39 | 156-60-5   |       |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:39 | 78-87-5    |       |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 05:39 | 10061-01-5 |       |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 05:39 | 10061-02-6 |       |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 05:39 | 60-29-7    |       |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 05:39 | 108-20-3   | N2    |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 05:39 | 100-41-4   |       |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 05:39 | 637-92-3   | N2    |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 05:39 | 67-72-1    | N2    |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 06/30/20 05:39 | 591-78-6   |       |
| Iodomethane                             | <0.45   | ug/L  | 5.0  | 0.45 | 1  |          | 06/30/20 05:39 | 74-88-4    |       |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: Field Blank**      **Lab ID: 50260974015**      Collected: 06/23/20 11:00      Received: 06/26/20 09:15      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 05:39 | 98-82-8     |      |
| p-Isopropyltoluene                      | <0.28   | ug/L  | 1.0    | 0.28 | 1  |          | 06/30/20 05:39 | 99-87-6     |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 05:39 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0   | 5.0  | 1  |          | 06/30/20 05:39 | 91-57-6     |      |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0   | 50.0 | 1  |          | 06/30/20 05:39 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 05:39 | 1634-04-4   |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 05:39 | 91-20-3     |      |
| n-Propylbenzene                         | <100    | ug/L  | 100    | 100  | 1  |          | 06/30/20 05:39 | 103-65-1    |      |
| Styrene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 05:39 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 05:39 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 05:39 | 79-34-5     |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 05:39 | 127-18-4    |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0   | 90.0 | 1  |          | 06/30/20 05:39 | 109-99-9    | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 05:39 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 05:39 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 05:39 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 05:39 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 05:39 | 79-00-5     |      |
| Trichloroethene                         | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 05:39 | 79-01-6     |      |
| Trichlorofluoromethane                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 06/30/20 05:39 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 05:39 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 05:39 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 06/30/20 05:39 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 06/30/20 05:39 | 108-67-8    |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 05:39 | 75-01-4     |      |
| m&p-Xylene                              | <0.16   | ug/L  | 2.0    | 0.16 | 1  |          | 06/30/20 05:39 | 179601-23-1 |      |
| o-Xylene                                | <0.39   | ug/L  | 1.0    | 0.39 | 1  |          | 06/30/20 05:39 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 101     | %     | 85-116 |      | 1  |          | 06/30/20 05:39 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 102     | %     | 75-120 |      | 1  |          | 06/30/20 05:39 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 108     | %     | 83-111 |      | 1  |          | 06/30/20 05:39 | 2037-26-5   |      |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: Trip Blank**      **Lab ID: 50260974016**      Collected: 06/24/20 08:00      Received: 06/26/20 09:15      Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual  |
|---|---------|-------|------|------|----|----------|----------------|------------|-------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |       |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |       |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |       |
| Acetone                                 | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 06/30/20 06:12 | 67-64-1    |       |
| Acrylonitrile                           | <2.0    | ug/L  | 2.0  | 2.0  | 1  |          | 06/30/20 06:12 | 107-13-1   |       |
| tert-Amylmethyl ether                   | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 06:12 | 994-05-8   | N2    |
| Benzene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:12 | 71-43-2    |       |
| Bromobenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:12 | 108-86-1   |       |
| Bromochloromethane                      | <0.59   | ug/L  | 1.0  | 0.59 | 1  |          | 06/30/20 06:12 | 74-97-5    |       |
| Bromodichloromethane                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:12 | 75-27-4    |       |
| Bromoform                               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:12 | 75-25-2    |       |
| Bromomethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 06:12 | 74-83-9    |       |
| 2-Butanone (MEK)                        | <25.0   | ug/L  | 25.0 | 25.0 | 1  |          | 06/30/20 06:12 | 78-93-3    |       |
| tert-Butyl Alcohol                      | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 06/30/20 06:12 | 75-65-0    |       |
| n-Butylbenzene                          | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:12 | 104-51-8   |       |
| sec-Butylbenzene                        | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:12 | 135-98-8   |       |
| tert-Butylbenzene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:12 | 98-06-6    |       |
| Carbon disulfide                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 06:12 | 75-15-0    | L1    |
| Carbon tetrachloride                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:12 | 56-23-5    |       |
| Chlorobenzene                           | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:12 | 108-90-7   |       |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 06:12 | 75-00-3    |       |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:12 | 67-66-3    |       |
| Chloromethane                           | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 06:12 | 74-87-3    |       |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 06/30/20 06:12 | 110-82-7   | L1,N2 |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 06/30/20 06:12 | 96-12-8    |       |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 06:12 | 124-48-1   |       |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 06/30/20 06:12 | 106-93-4   |       |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 06:12 | 74-95-3    |       |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:12 | 95-50-1    |       |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:12 | 541-73-1   |       |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:12 | 106-46-7   |       |
| trans-1,4-Dichloro-2-butene             | <0.82   | ug/L  | 100  | 0.82 | 1  |          | 06/30/20 06:12 | 110-57-6   |       |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 06:12 | 75-71-8    | L1    |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:12 | 75-34-3    |       |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:12 | 107-06-2   |       |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:12 | 75-35-4    |       |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:12 | 156-59-2   |       |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:12 | 156-60-5   |       |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:12 | 78-87-5    |       |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 06:12 | 10061-01-5 |       |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 06:12 | 10061-02-6 |       |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 06:12 | 60-29-7    |       |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 06:12 | 108-20-3   | N2    |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:12 | 100-41-4   |       |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 06:12 | 637-92-3   | N2    |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 06:12 | 67-72-1    | N2    |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 06/30/20 06:12 | 591-78-6   |       |
| Iodomethane                             | <0.45   | ug/L  | 5.0  | 0.45 | 1  |          | 06/30/20 06:12 | 74-88-4    |       |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: Trip Blank**      **Lab ID: 50260974016**      Collected: 06/24/20 08:00      Received: 06/26/20 09:15      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 06:12 | 98-82-8     |      |
| p-Isopropyltoluene                      | <0.28   | ug/L  | 1.0    | 0.28 | 1  |          | 06/30/20 06:12 | 99-87-6     |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 06:12 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0   | 5.0  | 1  |          | 06/30/20 06:12 | 91-57-6     |      |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0   | 50.0 | 1  |          | 06/30/20 06:12 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 06:12 | 1634-04-4   |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 06:12 | 91-20-3     |      |
| n-Propylbenzene                         | <100    | ug/L  | 100    | 100  | 1  |          | 06/30/20 06:12 | 103-65-1    |      |
| Styrene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 06:12 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 06:12 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 06:12 | 79-34-5     |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 06:12 | 127-18-4    |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0   | 90.0 | 1  |          | 06/30/20 06:12 | 109-99-9    | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 06:12 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 06:12 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 06:12 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 06:12 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 06:12 | 79-00-5     |      |
| Trichloroethene                         | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 06:12 | 79-01-6     |      |
| Trichlorofluoromethane                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 06/30/20 06:12 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 06:12 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 06:12 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 06/30/20 06:12 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 06/30/20 06:12 | 108-67-8    |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 06:12 | 75-01-4     |      |
| m&p-Xylene                              | <0.16   | ug/L  | 2.0    | 0.16 | 1  |          | 06/30/20 06:12 | 179601-23-1 |      |
| o-Xylene                                | <0.39   | ug/L  | 1.0    | 0.39 | 1  |          | 06/30/20 06:12 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 101     | %     | 85-116 |      | 1  |          | 06/30/20 06:12 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 104     | %     | 75-120 |      | 1  |          | 06/30/20 06:12 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 109     | %     | 83-111 |      | 1  |          | 06/30/20 06:12 | 2037-26-5   |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: Field Blank**      **Lab ID: 50260974017**      Collected: 06/24/20 11:00      Received: 06/26/20 09:15      Matrix: Water

| Parameters                              | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual  |
|---|---------|-------|------|------|----|----------|----------------|------------|-------|
| <b>8260 MSV Low Level</b>               |         |       |      |      |    |          |                |            |       |
| Analytical Method: EPA 5030B/8260       |         |       |      |      |    |          |                |            |       |
| Pace Analytical Services - Indianapolis |         |       |      |      |    |          |                |            |       |
| Acetone                                 | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 06/30/20 06:45 | 67-64-1    |       |
| Acrylonitrile                           | <2.0    | ug/L  | 2.0  | 2.0  | 1  |          | 06/30/20 06:45 | 107-13-1   |       |
| tert-Amylmethyl ether                   | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 06:45 | 994-05-8   | N2    |
| Benzene                                 | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:45 | 71-43-2    |       |
| Bromobenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:45 | 108-86-1   |       |
| Bromochloromethane                      | <0.59   | ug/L  | 1.0  | 0.59 | 1  |          | 06/30/20 06:45 | 74-97-5    |       |
| Bromodichloromethane                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:45 | 75-27-4    |       |
| Bromoform                               | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:45 | 75-25-2    |       |
| Bromomethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 06:45 | 74-83-9    |       |
| 2-Butanone (MEK)                        | <25.0   | ug/L  | 25.0 | 25.0 | 1  |          | 06/30/20 06:45 | 78-93-3    |       |
| tert-Butyl Alcohol                      | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 06/30/20 06:45 | 75-65-0    |       |
| n-Butylbenzene                          | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:45 | 104-51-8   |       |
| sec-Butylbenzene                        | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:45 | 135-98-8   |       |
| tert-Butylbenzene                       | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:45 | 98-06-6    |       |
| Carbon disulfide                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 06:45 | 75-15-0    | L1    |
| Carbon tetrachloride                    | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:45 | 56-23-5    |       |
| Chlorobenzene                           | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:45 | 108-90-7   |       |
| Chloroethane                            | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 06:45 | 75-00-3    |       |
| Chloroform                              | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:45 | 67-66-3    |       |
| Chloromethane                           | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 06:45 | 74-87-3    |       |
| Cyclohexane                             | <10.0   | ug/L  | 10.0 | 10.0 | 1  |          | 06/30/20 06:45 | 110-82-7   | L1,N2 |
| 1,2-Dibromo-3-chloropropane             | <0.25   | ug/L  | 0.50 | 0.25 | 1  |          | 06/30/20 06:45 | 96-12-8    |       |
| Dibromochloromethane                    | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 06:45 | 124-48-1   |       |
| 1,2-Dibromoethane (EDB)                 | <0.23   | ug/L  | 0.50 | 0.23 | 1  |          | 06/30/20 06:45 | 106-93-4   |       |
| Dibromomethane                          | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 06:45 | 74-95-3    |       |
| 1,2-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:45 | 95-50-1    |       |
| 1,3-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:45 | 541-73-1   |       |
| 1,4-Dichlorobenzene                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:45 | 106-46-7   |       |
| trans-1,4-Dichloro-2-butene             | <0.82   | ug/L  | 100  | 0.82 | 1  |          | 06/30/20 06:45 | 110-57-6   |       |
| Dichlorodifluoromethane                 | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 06:45 | 75-71-8    | L1    |
| 1,1-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:45 | 75-34-3    |       |
| 1,2-Dichloroethane                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:45 | 107-06-2   |       |
| 1,1-Dichloroethene                      | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:45 | 75-35-4    |       |
| cis-1,2-Dichloroethene                  | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:45 | 156-59-2   |       |
| trans-1,2-Dichloroethene                | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:45 | 156-60-5   |       |
| 1,2-Dichloropropane                     | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:45 | 78-87-5    |       |
| cis-1,3-Dichloropropene                 | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 06:45 | 10061-01-5 |       |
| trans-1,3-Dichloropropene               | <100    | ug/L  | 100  | 100  | 1  |          | 06/30/20 06:45 | 10061-02-6 |       |
| Diethyl ether (Ethyl ether)             | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 06:45 | 60-29-7    |       |
| Diisopropyl ether                       | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 06:45 | 108-20-3   | N2    |
| Ethylbenzene                            | <1.0    | ug/L  | 1.0  | 1.0  | 1  |          | 06/30/20 06:45 | 100-41-4   |       |
| Ethyl-tert-butyl ether                  | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 06:45 | 637-92-3   | N2    |
| Hexachloroethane                        | <5.0    | ug/L  | 5.0  | 5.0  | 1  |          | 06/30/20 06:45 | 67-72-1    | N2    |
| 2-Hexanone                              | <50.0   | ug/L  | 50.0 | 50.0 | 1  |          | 06/30/20 06:45 | 591-78-6   |       |
| Iodomethane                             | <0.45   | ug/L  | 5.0  | 0.45 | 1  |          | 06/30/20 06:45 | 74-88-4    |       |

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### ANALYTICAL RESULTS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

**Sample: Field Blank**      **Lab ID: 50260974017**      Collected: 06/24/20 11:00      Received: 06/26/20 09:15      Matrix: Water

| Parameters                              | Results | Units | PQL    | MDL  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV Low Level</b>               |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 5030B/8260       |         |       |        |      |    |          |                |             |      |
| Pace Analytical Services - Indianapolis |         |       |        |      |    |          |                |             |      |
| Isopropylbenzene (Cumene)               | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 06:45 | 98-82-8     |      |
| p-Isopropyltoluene                      | <0.28   | ug/L  | 1.0    | 0.28 | 1  |          | 06/30/20 06:45 | 99-87-6     |      |
| Methylene Chloride                      | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 06:45 | 75-09-2     |      |
| 2-Methylnaphthalene                     | <5.0    | ug/L  | 20.0   | 5.0  | 1  |          | 06/30/20 06:45 | 91-57-6     |      |
| 4-Methyl-2-pentanone (MIBK)             | <50.0   | ug/L  | 50.0   | 50.0 | 1  |          | 06/30/20 06:45 | 108-10-1    |      |
| Methyl-tert-butyl ether                 | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 06:45 | 1634-04-4   |      |
| Naphthalene                             | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 06:45 | 91-20-3     |      |
| n-Propylbenzene                         | <100    | ug/L  | 100    | 100  | 1  |          | 06/30/20 06:45 | 103-65-1    |      |
| Styrene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 06:45 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 06:45 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane               | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 06:45 | 79-34-5     |      |
| Tetrachloroethene                       | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 06:45 | 127-18-4    |      |
| Tetrahydrofuran                         | <90.0   | ug/L  | 90.0   | 90.0 | 1  |          | 06/30/20 06:45 | 109-99-9    | N2   |
| Toluene                                 | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 06:45 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 06:45 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 06:45 | 120-82-1    |      |
| 1,1,1-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 06:45 | 71-55-6     |      |
| 1,1,2-Trichloroethane                   | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 06:45 | 79-00-5     |      |
| Trichloroethene                         | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 06:45 | 79-01-6     |      |
| Trichlorofluoromethane                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 06/30/20 06:45 | 75-69-4     |      |
| 1,2,3-Trichloropropane                  | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 06:45 | 96-18-4     |      |
| 1,2,3-Trimethylbenzene                  | <5.0    | ug/L  | 5.0    | 5.0  | 1  |          | 06/30/20 06:45 | 526-73-8    | N2   |
| 1,2,4-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 06/30/20 06:45 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                  | <1.0    | ug/L  | 5.0    | 1.0  | 1  |          | 06/30/20 06:45 | 108-67-8    |      |
| Vinyl chloride                          | <1.0    | ug/L  | 1.0    | 1.0  | 1  |          | 06/30/20 06:45 | 75-01-4     |      |
| m&p-Xylene                              | <0.16   | ug/L  | 2.0    | 0.16 | 1  |          | 06/30/20 06:45 | 179601-23-1 |      |
| o-Xylene                                | <0.39   | ug/L  | 1.0    | 0.39 | 1  |          | 06/30/20 06:45 | 95-47-6     |      |
| <b>Surrogates</b>                       |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                | 100     | %     | 85-116 |      | 1  |          | 06/30/20 06:45 | 460-00-4    |      |
| Dibromofluoromethane (S)                | 107     | %     | 75-120 |      | 1  |          | 06/30/20 06:45 | 1868-53-7   |      |
| Toluene-d8 (S)                          | 110     | %     | 83-111 |      | 1  |          | 06/30/20 06:45 | 2037-26-5   |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

QC Batch: 569752 Analysis Method: EPA 8015 Alcohol-Glycol  
QC Batch Method: EPA 8015 Alcohol-Glycol Analysis Description: EPA 8015 Modified  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50260974004, 50260974006, 50260974008, 50260974009

METHOD BLANK: 2628768 Matrix: Water  
Associated Lab Samples: 50260974004, 50260974006, 50260974008, 50260974009

| Parameter | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Ethanol   | ug/L  | <1000        | 5000            | 1000 | 06/29/20 13:04 |            |
| Methanol  | ug/L  | <400         | 5000            | 400  | 06/29/20 13:04 |            |
| n-Butanol | ug/L  | <800         | 5000            | 800  | 06/29/20 13:04 |            |

LABORATORY CONTROL SAMPLE: 2628769

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Ethanol   | ug/L  | 50000       | 51300      | 103       | 69-128       |            |
| Methanol  | ug/L  | 50000       | 40300      | 81        | 73-118       |            |
| n-Butanol | ug/L  | 50000       | 41300      | 83        | 77-124       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2628845 2628846

| Parameter | Units | 50260974004 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Ethanol   | ug/L  | <1000              | 50000          | 50000           | 57800     | 51400      | 116      | 103       | 64-132       | 12  | 20      |      |
| Methanol  | ug/L  | <400               | 50000          | 50000           | 45300     | 39700      | 90       | 79        | 66-123       | 13  | 20      |      |
| n-Butanol | ug/L  | <800               | 50000          | 50000           | 46700     | 41300      | 93       | 83        | 66-130       | 12  | 20      |      |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

| Parameter  | Units | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2628423 |                      | 2628424               |        | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | RPD | Max<br>RPD | Qual |
|------------|-------|--|----------------------|-----------------------|--------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
|            |       | 50260974003<br>Result                          | MS<br>Spike<br>Conc. | MSD<br>Spike<br>Conc. |        |              |               |             |              |                 |     |            |      |
| Arsenic    | ug/L  | <5.0   | 1000                 | 1000                  | 976    | 987          | 98            | 99          | 75-125       | 1               | 20  |            |      |
| Barium     | ug/L  | <100   | 1000                 | 1000                  | 929    | 946          | 90            | 91          | 75-125       | 2               | 20  |            |      |
| Boron      | ug/L  | <300   | 1000                 | 1000                  | 1000   | 1010         | 95            | 97          | 75-125       | 1               | 20  |            |      |
| Calcium    | ug/L  | 103000   | 10000                | 10000                 | 110000 | 111000       | 76            | 78          | 75-125       | 0               | 20  |            |      |
| Chromium   | ug/L  | <10.0  | 1000                 | 1000                  | 903    | 914          | 90            | 91          | 75-125       | 1               | 20  |            |      |
| Cobalt     | ug/L  | <20.0  | 1000                 | 1000                  | 888    | 898          | 89            | 89          | 75-125       | 1               | 20  |            |      |
| Copper     | ug/L  | 8.7  | 1000                 | 1000                  | 909    | 914          | 90            | 91          | 75-125       | 1               | 20  |            |      |
| Iron       | ug/L  | 1290   | 10000                | 10000                 | 10000  | 10200        | 87            | 89          | 75-125       | 1               | 20  |            |      |
| Magnesium  | ug/L  | 14600  | 10000                | 10000                 | 23000  | 23300        | 83            | 87          | 75-125       | 2               | 20  |            |      |
| Manganese  | ug/L  | 781  | 1000                 | 1000                  | 1660   | 1680         | 88            | 90          | 75-125       | 1               | 20  |            |      |
| Molybdenum | ug/L  | <50.0  | 1000                 | 1000                  | 976    | 989          | 97            | 98          | 75-125       | 1               | 20  |            |      |
| Nickel     | ug/L  | <20.0  | 1000                 | 1000                  | 897    | 906          | 89            | 90          | 75-125       | 1               | 20  |            |      |
| Potassium  | ug/L  | 1940   | 10000                | 10000                 | 11000  | 11200        | 91            | 93          | 75-125       | 2               | 20  |            |      |
| Sodium     | ug/L  | 21500  | 10000                | 10000                 | 30300  | 30800        | 87            | 93          | 75-125       | 2               | 20  |            |      |
| Strontium  | ug/L  | <1000  | 1000                 | 1000                  | 1060   | 1070         | 92            | 94          | 75-125       | 2               | 20  |            |      |
| Zinc       | ug/L  | <50.0  | 1000                 | 1000                  | 928    | 941          | 92            | 93          | 75-125       | 1               | 20  |            |      |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

QC Batch: 569653 Analysis Method: EPA 6020  
QC Batch Method: EPA 200.2 Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50260974001, 50260974002, 50260974003, 50260974004, 50260974005, 50260974006, 50260974007, 50260974008, 50260974009, 50260974010, 50260974011, 50260974012, 50260974013

METHOD BLANK: 2628462 Matrix: Water  
Associated Lab Samples: 50260974001, 50260974002, 50260974003, 50260974004, 50260974005, 50260974006, 50260974007, 50260974008, 50260974009, 50260974010, 50260974011, 50260974012, 50260974013

| Parameter | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Aluminum  | ug/L  | <50.0        | 50.0            | 50.0  | 07/01/20 09:40 |            |
| Antimony  | ug/L  | <2.0         | 2.0             | 2.0   | 07/01/20 09:40 |            |
| Beryllium | ug/L  | <1.0         | 1.0             | 1.0   | 07/01/20 09:40 |            |
| Cadmium   | ug/L  | <1.0         | 1.0             | 1.0   | 07/01/20 09:40 |            |
| Lead      | ug/L  | <3.0         | 3.0             | 3.0   | 07/01/20 09:40 |            |
| Selenium  | ug/L  | <5.0         | 5.0             | 5.0   | 07/01/20 09:40 |            |
| Silver    | ug/L  | <0.20        | 0.25            | 0.20  | 07/01/20 09:40 |            |
| Thallium  | ug/L  | <2.0         | 2.0             | 2.0   | 07/01/20 09:40 |            |
| Titanium  | ug/L  | <0.097       | 1.0             | 0.097 | 07/01/20 09:40 | N2         |
| Vanadium  | ug/L  | <4.0         | 4.0             | 4.0   | 07/01/20 09:40 |            |

LABORATORY CONTROL SAMPLE: 2628463

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Aluminum  | ug/L  | 400         | 407        | 102       | 80-120       |            |
| Antimony  | ug/L  | 40          | 41.5       | 104       | 80-120       |            |
| Beryllium | ug/L  | 40          | 38.6       | 96        | 80-120       |            |
| Cadmium   | ug/L  | 40          | 38.7       | 97        | 80-120       |            |
| Lead      | ug/L  | 40          | 39.7       | 99        | 80-120       |            |
| Selenium  | ug/L  | 40          | 40.2       | 100       | 80-120       |            |
| Silver    | ug/L  | 40          | 40.0       | 100       | 80-120       |            |
| Thallium  | ug/L  | 40          | 40.2       | 101       | 80-120       |            |
| Titanium  | ug/L  | 40          | 41.4       | 103       | 80-120       | N2         |
| Vanadium  | ug/L  | 40          | 39.6       | 99        | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2628464 2628465

| Parameter | Units | MS                 |             | MSD         |        | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |        |
|-----------|-------|--------------------|-------------|-------------|--------|----------|-----------|--------------|--------|---------|------|--------|
|           |       | 50260974001 Result | Spike Conc. | Spike Conc. | Result |          |           |              |        |         |      | Result |
| Aluminum  | ug/L  | <50.0              | 400         | 400         | 404    | 409      | 98        | 99           | 75-125 | 1       | 20   |        |
| Antimony  | ug/L  | <2.0               | 40          | 40          | 40.7   | 41.6     | 101       | 103          | 75-125 | 2       | 20   |        |
| Beryllium | ug/L  | <1.0               | 40          | 40          | 39.7   | 40.6     | 99        | 102          | 75-125 | 2       | 20   |        |
| Cadmium   | ug/L  | <1.0               | 40          | 40          | 36.7   | 37.3     | 92        | 93           | 75-125 | 2       | 20   |        |
| Lead      | ug/L  | <3.0               | 40          | 40          | 40.1   | 40.6     | 100       | 101          | 75-125 | 1       | 20   |        |
| Selenium  | ug/L  | <5.0               | 40          | 40          | 37.2   | 37.7     | 92        | 94           | 75-125 | 1       | 20   |        |
| Silver    | ug/L  | <0.20              | 40          | 40          | 37.7   | 38.3     | 94        | 96           | 75-125 | 2       | 20   |        |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260974

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2628464 |       |                       |                |                |              |               |             |              |                 |     |     | 2628465 |  |
|--|-------|-----------------------|----------------|----------------|--------------|---------------|-------------|--------------|-----------------|-----|-----|---------|--|
| Parameter                                      | Units | 50260974001<br>Result | MS             | MSD            | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | RPD | Max | Qual    |  |
|  |       |                       | Spike<br>Conc. | Spike<br>Conc. |              |               |             |              |                 |     | RPD |         |  |
| Thallium                                       | ug/L  | <2.0                  | 40             | 40             | 41.2         | 41.4          | 103         | 103          | 75-125          | 0   | 20  |         |  |
| Titanium                                       | ug/L  | 172                   | 40             | 40             | 212          | 214           | 99          | 106          | 75-125          | 1   | 20  | N2      |  |
| Vanadium                                       | ug/L  | <4.0                  | 40             | 40             | 40.4         | 40.9          | 98          | 99           | 75-125          | 1   | 20  |         |  |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

|                  |                     |                       |                                     |
|------------------|---------------------|-----------------------|-------------------------------------|
| QC Batch:        | 167346              | Analysis Method:      | EPA 8260C SIM/5030C                 |
| QC Batch Method: | EPA 8260C SIM/5030C | Analysis Description: | 8260C SIM 5030C                     |
|                  |                     | Laboratory:           | Pace Analytical Services - Melville |

Associated Lab Samples: 50260974005, 50260974007, 50260974008, 50260974009, 50260974010, 50260974011, 50260974013

METHOD BLANK: 808309 Matrix: Water  
Associated Lab Samples: 50260974005, 50260974007, 50260974008, 50260974009, 50260974010, 50260974011, 50260974013

| Parameter                  | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|----------------------------|-------|--------------|-----------------|-------|----------------|------------|
| 1,4-Dioxane (p-Dioxane)    | ug/L  | <0.090       | 0.20            | 0.090 | 07/02/20 15:51 |            |
| 1,2-Dichlorobenzene-d4 (S) | %     | 85           | 60-140          |       | 07/02/20 15:51 |            |
| 4-Bromofluorobenzene (S)   | %     | 96           | 79-124          |       | 07/02/20 15:51 |            |

LABORATORY CONTROL SAMPLE: 808310

| Parameter                  | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,4-Dioxane (p-Dioxane)    | ug/L  | 2.5         | 2.1        | 85        | 60-140       |            |
| 1,2-Dichlorobenzene-d4 (S) | %     |             |            | 84        | 60-140       |            |
| 4-Bromofluorobenzene (S)   | %     |             |            | 96        | 79-124       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 809492 809493

| Parameter                  | Units | 50260974007 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| 1,4-Dioxane (p-Dioxane)    | ug/L  | <0.090             | 2.5            | 2.5             | 2.9       | 3.0        | 116      | 122       | 60-140       | 5   | 20      |      |
| 1,2-Dichlorobenzene-d4 (S) | %     |                    |                |                 |           |            | 104      | 104       | 60-140       |     | 20      |      |
| 4-Bromofluorobenzene (S)   | %     |                    |                |                 |           |            | 124      | 123       | 79-124       |     | 20      |      |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

QC Batch: 569767 Analysis Method: EPA 5030B/8260  
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Low Level  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50260974015, 50260974016, 50260974017

METHOD BLANK: 2628823 Matrix: Water  
Associated Lab Samples: 50260974015, 50260974016, 50260974017

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:35 |            |
| 1,1,1-Trichloroethane       | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:35 |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:35 |            |
| 1,1,2-Trichloroethane       | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:35 |            |
| 1,1-Dichloroethane          | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:35 |            |
| 1,1-Dichloroethene          | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:35 |            |
| 1,2,3-Trichlorobenzene      | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:35 |            |
| 1,2,3-Trichloropropane      | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:35 |            |
| 1,2,3-Trimethylbenzene      | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:35 | N2         |
| 1,2,4-Trichlorobenzene      | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:35 |            |
| 1,2,4-Trimethylbenzene      | ug/L  | <1.0         | 5.0             | 1.0  | 06/29/20 23:35 |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | <0.25        | 0.50            | 0.25 | 06/29/20 23:35 |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | <0.23        | 0.50            | 0.23 | 06/29/20 23:35 |            |
| 1,2-Dichlorobenzene         | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:35 |            |
| 1,2-Dichloroethane          | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:35 |            |
| 1,2-Dichloropropane         | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:35 |            |
| 1,3,5-Trimethylbenzene      | ug/L  | <1.0         | 5.0             | 1.0  | 06/29/20 23:35 |            |
| 1,3-Dichlorobenzene         | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:35 |            |
| 1,4-Dichlorobenzene         | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:35 |            |
| 2-Butanone (MEK)            | ug/L  | <25.0        | 25.0            | 25.0 | 06/29/20 23:35 |            |
| 2-Hexanone                  | ug/L  | <50.0        | 50.0            | 50.0 | 06/29/20 23:35 |            |
| 2-Methylnaphthalene         | ug/L  | <5.0         | 20.0            | 5.0  | 06/29/20 23:35 |            |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | <50.0        | 50.0            | 50.0 | 06/29/20 23:35 |            |
| Acetone                     | ug/L  | <50.0        | 50.0            | 50.0 | 06/29/20 23:35 |            |
| Acrylonitrile               | ug/L  | <2.0         | 2.0             | 2.0  | 06/29/20 23:35 |            |
| Benzene                     | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:35 |            |
| Bromobenzene                | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:35 |            |
| Bromochloromethane          | ug/L  | <0.59        | 1.0             | 0.59 | 06/29/20 23:35 |            |
| Bromodichloromethane        | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:35 |            |
| Bromoform                   | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:35 |            |
| Bromomethane                | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:35 |            |
| Carbon disulfide            | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:35 |            |
| Carbon tetrachloride        | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:35 |            |
| Chlorobenzene               | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:35 |            |
| Chloroethane                | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:35 |            |
| Chloroform                  | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:35 |            |
| Chloromethane               | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:35 |            |
| cis-1,2-Dichloroethene      | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:35 |            |
| cis-1,3-Dichloropropene     | ug/L  | <100         | 100             | 100  | 06/29/20 23:35 |            |
| Cyclohexane                 | ug/L  | <10.0        | 10.0            | 10.0 | 06/29/20 23:35 | N2         |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260974

METHOD BLANK: 2628823

Matrix: Water

Associated Lab Samples: 50260974015, 50260974016, 50260974017

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| Dibromochloromethane        | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:35 |            |
| Dibromomethane              | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:35 |            |
| Dichlorodifluoromethane     | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:35 |            |
| Diethyl ether (Ethyl ether) | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:35 |            |
| Diisopropyl ether           | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:35 | N2         |
| Ethyl-tert-butyl ether      | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:35 | N2         |
| Ethylbenzene                | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:35 |            |
| Hexachloroethane            | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:35 | N2         |
| Iodomethane                 | ug/L  | <0.45        | 5.0             | 0.45 | 06/29/20 23:35 |            |
| Isopropylbenzene (Cumene)   | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:35 |            |
| m&p-Xylene                  | ug/L  | <0.16        | 2.0             | 0.16 | 06/29/20 23:35 |            |
| Methyl-tert-butyl ether     | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:35 |            |
| Methylene Chloride          | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:35 |            |
| n-Butylbenzene              | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:35 |            |
| n-Propylbenzene             | ug/L  | <100         | 100             | 100  | 06/29/20 23:35 |            |
| Naphthalene                 | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:35 |            |
| o-Xylene                    | ug/L  | <0.39        | 1.0             | 0.39 | 06/29/20 23:35 |            |
| p-Isopropyltoluene          | ug/L  | <0.28        | 1.0             | 0.28 | 06/29/20 23:35 |            |
| sec-Butylbenzene            | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:35 |            |
| Styrene                     | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:35 |            |
| tert-Amylmethyl ether       | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:35 | N2         |
| tert-Butyl Alcohol          | ug/L  | <50.0        | 50.0            | 50.0 | 06/29/20 23:35 |            |
| tert-Butylbenzene           | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:35 |            |
| Tetrachloroethane           | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:35 |            |
| Tetrahydrofuran             | ug/L  | <90.0        | 90.0            | 90.0 | 06/29/20 23:35 | N2         |
| Toluene                     | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:35 |            |
| trans-1,2-Dichloroethene    | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:35 |            |
| trans-1,3-Dichloropropene   | ug/L  | <100         | 100             | 100  | 06/29/20 23:35 |            |
| trans-1,4-Dichloro-2-butene | ug/L  | <0.82        | 100             | 0.82 | 06/29/20 23:35 |            |
| Trichloroethene             | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:35 |            |
| Trichlorofluoromethane      | ug/L  | <1.0         | 2.0             | 1.0  | 06/29/20 23:35 |            |
| Vinyl chloride              | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:35 |            |
| 4-Bromofluorobenzene (S)    | %     | 102          | 85-116          |      | 06/29/20 23:35 |            |
| Dibromofluoromethane (S)    | %     | 103          | 75-120          |      | 06/29/20 23:35 |            |
| Toluene-d8 (S)              | %     | 111          | 83-111          |      | 06/29/20 23:35 |            |

LABORATORY CONTROL SAMPLE: 2628824

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/L  | 50          | 51.6       | 103       | 78-120       |            |
| 1,1,1-Trichloroethane     | ug/L  | 50          | 56.9       | 114       | 78-130       |            |
| 1,1,2,2-Tetrachloroethane | ug/L  | 50          | 49.4       | 99        | 64-126       |            |
| 1,1,2-Trichloroethane     | ug/L  | 50          | 55.5       | 111       | 73-125       |            |
| 1,1-Dichloroethane        | ug/L  | 50          | 61.1       | 122       | 77-123       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

LABORATORY CONTROL SAMPLE: 2628824

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1-Dichloroethene          | ug/L  | 50          | 60.8       | 122       | 79-128       |            |
| 1,2,3-Trichlorobenzene      | ug/L  | 50          | 47.8       | 96        | 75-126       |            |
| 1,2,3-Trichloropropane      | ug/L  | 50          | 51.0       | 102       | 71-131       |            |
| 1,2,4-Trichlorobenzene      | ug/L  | 50          | 47.6       | 95        | 76-130       |            |
| 1,2,4-Trimethylbenzene      | ug/L  | 50          | 51.7       | 103       | 76-119       |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | 50          | 45.7       | 91        | 71-133       |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | 50          | 50.7       | 101       | 76-122       |            |
| 1,2-Dichlorobenzene         | ug/L  | 50          | 48.2       | 96        | 79-113       |            |
| 1,2-Dichloroethane          | ug/L  | 50          | 52.3       | 105       | 66-127       |            |
| 1,2-Dichloropropane         | ug/L  | 50          | 61.4       | 123       | 75-127       |            |
| 1,3,5-Trimethylbenzene      | ug/L  | 50          | 53.5       | 107       | 78-116       |            |
| 1,3-Dichlorobenzene         | ug/L  | 50          | 48.9       | 98        | 79-120       |            |
| 1,4-Dichlorobenzene         | ug/L  | 50          | 47.9       | 96        | 77-117       |            |
| 2-Butanone (MEK)            | ug/L  | 250         | 273        | 109       | 61-138       |            |
| 2-Hexanone                  | ug/L  | 250         | 282        | 113       | 58-138       |            |
| 2-Methylnaphthalene         | ug/L  | 50          | 51.6       | 103       | 60-136       |            |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | 250         | 277        | 111       | 60-131       |            |
| Acetone                     | ug/L  | 250         | 234        | 94        | 57-126       |            |
| Acrylonitrile               | ug/L  | 200         | 211        | 105       | 65-127       |            |
| Benzene                     | ug/L  | 50          | 56.8       | 114       | 75-118       |            |
| Bromobenzene                | ug/L  | 50          | 52.0       | 104       | 68-127       |            |
| Bromochloromethane          | ug/L  | 50          | 53.2       | 106       | 66-126       |            |
| Bromodichloromethane        | ug/L  | 50          | 51.0       | 102       | 75-120       |            |
| Bromoform                   | ug/L  | 50          | 44.4       | 89        | 61-119       |            |
| Bromomethane                | ug/L  | 50          | 35.6       | 71        | 12-184       |            |
| Carbon disulfide            | ug/L  | 50          | 62.1       | 124       | 71-123       | L1         |
| Carbon tetrachloride        | ug/L  | 50          | 56.6       | 113       | 73-125       |            |
| Chlorobenzene               | ug/L  | 50          | 53.0       | 106       | 80-115       |            |
| Chloroethane                | ug/L  | 50          | 46.5       | 93        | 46-133       |            |
| Chloroform                  | ug/L  | 50          | 51.5       | 103       | 75-117       |            |
| Chloromethane               | ug/L  | 50          | 60.4       | 121       | 33-124       |            |
| cis-1,2-Dichloroethene      | ug/L  | 50          | 53.0       | 106       | 76-120       |            |
| cis-1,3-Dichloropropene     | ug/L  | 50          | <100       | 113       | 73-130       |            |
| Cyclohexane                 | ug/L  | 50          | 67.0       | 134       | 58-122       | L1,N2      |
| Dibromochloromethane        | ug/L  | 50          | 50.1       | 100       | 69-124       |            |
| Dibromomethane              | ug/L  | 50          | 52.1       | 104       | 76-124       |            |
| Dichlorodifluoromethane     | ug/L  | 50          | 81.1       | 162       | 36-145       | L1         |
| Diethyl ether (Ethyl ether) | ug/L  | 50          | 58.5       | 117       | 70-130       |            |
| Ethylbenzene                | ug/L  | 50          | 54.0       | 108       | 78-120       |            |
| Iodomethane                 | ug/L  | 100         | 20.9       | 21        | 10-184       |            |
| Isopropylbenzene (Cumene)   | ug/L  | 50          | 54.5       | 109       | 82-122       |            |
| m&p-Xylene                  | ug/L  | 100         | 109        | 109       | 79-118       |            |
| Methyl-tert-butyl ether     | ug/L  | 50          | 53.6       | 107       | 79-125       |            |
| Methylene Chloride          | ug/L  | 50          | 55.3       | 111       | 68-126       |            |
| n-Butylbenzene              | ug/L  | 50          | 53.9       | 108       | 73-123       |            |
| n-Propylbenzene             | ug/L  | 50          | <100       | 110       | 75-119       |            |
| Naphthalene                 | ug/L  | 50          | 43.3       | 87        | 70-130       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

LABORATORY CONTROL SAMPLE: 2628824

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| o-Xylene                    | ug/L  | 50          | 52.6       | 105       | 78-121       |            |
| p-Isopropyltoluene          | ug/L  | 50          | 53.6       | 107       | 82-119       |            |
| sec-Butylbenzene            | ug/L  | 50          | 55.1       | 110       | 79-119       |            |
| Styrene                     | ug/L  | 50          | 52.6       | 105       | 80-121       |            |
| tert-Butyl Alcohol          | ug/L  | 100         | 152        | 152       | 10-200       |            |
| tert-Butylbenzene           | ug/L  | 50          | 40.4       | 81        | 58-106       |            |
| Tetrachloroethene           | ug/L  | 50          | 53.2       | 106       | 70-123       |            |
| Tetrahydrofuran             | ug/L  | 50          | <90.0      | 100       | 50-150 N2    |            |
| Toluene                     | ug/L  | 50          | 55.3       | 111       | 72-114       |            |
| trans-1,2-Dichloroethene    | ug/L  | 50          | 57.8       | 116       | 79-126       |            |
| trans-1,3-Dichloropropene   | ug/L  | 50          | <100       | 103       | 68-122       |            |
| trans-1,4-Dichloro-2-butene | ug/L  | 200         | 179        | 90        | 34-130       |            |
| Trichloroethene             | ug/L  | 50          | 54.5       | 109       | 78-120       |            |
| Trichlorofluoromethane      | ug/L  | 50          | 57.7       | 115       | 57-156       |            |
| Vinyl chloride              | ug/L  | 50          | 54.8       | 110       | 55-122       |            |
| 4-Bromofluorobenzene (S)    | %     |             |            | 103       | 85-116       |            |
| Dibromofluoromethane (S)    | %     |             |            | 104       | 75-120       |            |
| Toluene-d8 (S)              | %     |             |            | 105       | 83-111       |            |

MATRIX SPIKE SAMPLE: 2628825

| Parameter                   | Units | 50260996001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/L  | ND                 | 50          | 53.5      | 107      | 51-135       |            |
| 1,1,1-Trichloroethane       | ug/L  | 24.4               | 50          | 85.4      | 122      | 56-144       |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | ND                 | 50          | 48.4      | 97       | 47-137       |            |
| 1,1,2-Trichloroethane       | ug/L  | ND                 | 50          | 56.5      | 113      | 55-136       |            |
| 1,1-Dichloroethane          | ug/L  | 55.4               | 50          | 123       | 136      | 53-140       |            |
| 1,1-Dichloroethene          | ug/L  | 0.47J              | 50          | 64.3      | 128      | 60-140       |            |
| 1,2,3-Trichlorobenzene      | ug/L  | ND                 | 50          | 46.7      | 93       | 35-140       |            |
| 1,2,3-Trichloropropane      | ug/L  | ND                 | 50          | 48.9      | 98       | 54-142       |            |
| 1,2,4-Trichlorobenzene      | ug/L  | ND                 | 50          | 46.4      | 93       | 31-143       |            |
| 1,2,4-Trimethylbenzene      | ug/L  | ND                 | 50          | 52.1      | 104      | 13-152       |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | ND                 | 50          | 44.1      | 88       | 29-145       |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                 | 50          | 51.9      | 104      | 56-136       |            |
| 1,2-Dichlorobenzene         | ug/L  | ND                 | 50          | 48.0      | 96       | 38-133       |            |
| 1,2-Dichloroethane          | ug/L  | ND                 | 50          | 54.4      | 109      | 46-145       |            |
| 1,2-Dichloropropane         | ug/L  | ND                 | 50          | 65.0      | 130      | 55-141       |            |
| 1,3,5-Trimethylbenzene      | ug/L  | ND                 | 50          | 53.3      | 107      | 23-145       |            |
| 1,3-Dichlorobenzene         | ug/L  | ND                 | 50          | 48.8      | 98       | 31-144       |            |
| 1,4-Dichlorobenzene         | ug/L  | ND                 | 50          | 47.0      | 94       | 31-138       |            |
| 2-Butanone (MEK)            | ug/L  | ND                 | 250         | 234       | 93       | 42-150       |            |
| 2-Hexanone                  | ug/L  | ND                 | 250         | 273       | 109      | 43-146       |            |
| 2-Methylnaphthalene         | ug/L  | ND                 | 50          | 45.5      | 91       | 32-142       |            |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | ND                 | 250         | 277       | 111      | 42-142       |            |
| Acetone                     | ug/L  | ND                 | 250         | 218       | 87       | 36-142       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

| MATRIX SPIKE SAMPLE: 2628825 |       | 50260996001 | Spike | MS     | MS    | % Rec  |            |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter                    | Units | Result      | Conc. | Result | % Rec | Limits | Qualifiers |
| Acrylonitrile                | ug/L  | ND          | 200   | 201    | 100   | 48-137 |            |
| Benzene                      | ug/L  | ND          | 50    | 59.3   | 119   | 49-135 |            |
| Bromobenzene                 | ug/L  | ND          | 50    | 54.4   | 109   | 37-144 |            |
| Bromochloromethane           | ug/L  | ND          | 50    | 55.5   | 111   | 47-140 |            |
| Bromodichloromethane         | ug/L  | ND          | 50    | 53.4   | 107   | 55-133 |            |
| Bromoform                    | ug/L  | ND          | 50    | 44.0   | 88    | 45-125 |            |
| Bromomethane                 | ug/L  | ND          | 50    | 30.6   | 61    | 10-191 |            |
| Carbon disulfide             | ug/L  | ND          | 50    | 62.6   | 125   | 49-136 |            |
| Carbon tetrachloride         | ug/L  | ND          | 50    | 60.3   | 121   | 55-134 |            |
| Chlorobenzene                | ug/L  | ND          | 50    | 54.4   | 109   | 42-135 |            |
| Chloroethane                 | ug/L  | ND          | 50    | 50.3   | 101   | 25-154 |            |
| Chloroform                   | ug/L  | ND          | 50    | 53.7   | 107   | 57-130 |            |
| Chloromethane                | ug/L  | ND          | 50    | 65.6   | 131   | 17-129 | M1         |
| cis-1,2-Dichloroethene       | ug/L  | 42.3        | 50    | 98.7   | 113   | 53-134 |            |
| cis-1,3-Dichloropropene      | ug/L  | ND          | 50    | <100   | 114   | 50-136 |            |
| Cyclohexane                  | ug/L  | ND          | 50    | 69.5   | 139   | 33-130 | M0,N2      |
| Dibromochloromethane         | ug/L  | ND          | 50    | 52.4   | 105   | 53-133 |            |
| Dibromomethane               | ug/L  | ND          | 50    | 53.7   | 107   | 57-139 |            |
| Dichlorodifluoromethane      | ug/L  | ND          | 50    | 85.0   | 170   | 21-154 | M0         |
| Diethyl ether (Ethyl ether)  | ug/L  | ND          | 50    | 58.9   | 118   | 70-130 |            |
| Ethylbenzene                 | ug/L  | ND          | 50    | 56.9   | 114   | 28-147 |            |
| Iodomethane                  | ug/L  | ND          | 100   | 19.2   | 19    | 10-186 |            |
| Isopropylbenzene (Cumene)    | ug/L  | ND          | 50    | 57.5   | 115   | 27-151 |            |
| m&p-Xylene                   | ug/L  | ND          | 100   | 114    | 114   | 28-145 |            |
| Methyl-tert-butyl ether      | ug/L  | ND          | 50    | 53.4   | 107   | 60-142 |            |
| Methylene Chloride           | ug/L  | ND          | 50    | 54.9   | 110   | 46-138 |            |
| n-Butylbenzene               | ug/L  | ND          | 50    | 53.0   | 106   | 10-153 |            |
| n-Propylbenzene              | ug/L  | ND          | 50    | <100   | 112   | 20-149 |            |
| Naphthalene                  | ug/L  | ND          | 50    | 41.1   | 82    | 41-139 |            |
| o-Xylene                     | ug/L  | ND          | 50    | 55.1   | 110   | 31-145 |            |
| p-Isopropyltoluene           | ug/L  | ND          | 50    | 52.8   | 106   | 15-155 |            |
| sec-Butylbenzene             | ug/L  | ND          | 50    | 55.4   | 111   | 17-153 |            |
| Styrene                      | ug/L  | ND          | 50    | 54.3   | 109   | 42-139 |            |
| tert-Butyl Alcohol           | ug/L  | ND          | 100   | 65.8   | 66    | 10-170 |            |
| tert-Butylbenzene            | ug/L  | ND          | 50    | 41.0   | 82    | 18-123 |            |
| Tetrachloroethene            | ug/L  | ND          | 50    | 53.2   | 106   | 32-140 |            |
| Tetrahydrofuran              | ug/L  | ND          | 50    | <90.0  | 88    | 50-150 | N2         |
| Toluene                      | ug/L  | 0.097J      | 50    | 57.7   | 115   | 42-131 |            |
| trans-1,2-Dichloroethene     | ug/L  | 3.1         | 50    | 61.6   | 117   | 57-138 |            |
| trans-1,3-Dichloropropene    | ug/L  | ND          | 50    | <100   | 99    | 47-128 |            |
| trans-1,4-Dichloro-2-butene  | ug/L  | ND          | 200   | 169    | 84    | 10-135 |            |
| Trichloroethene              | ug/L  | 8.0         | 50    | 64.5   | 113   | 47-137 |            |
| Trichlorofluoromethane       | ug/L  | ND          | 50    | 62.9   | 126   | 42-163 |            |
| Vinyl chloride               | ug/L  | ND          | 50    | 59.4   | 119   | 36-136 |            |
| 4-Bromofluorobenzene (S)     | %     |             |       |        | 103   | 85-116 |            |
| Dibromofluoromethane (S)     | %     |             |       |        | 103   | 75-120 |            |
| Toluene-d8 (S)               | %     |             |       |        | 106   | 83-111 |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260974

SAMPLE DUPLICATE: 2628826

| Parameter                   | Units | 50260996002<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|-----------------------------|-------|-----------------------|---------------|-----|------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,1,1-Trichloroethane       | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,1,2-Trichloroethane       | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,1-Dichloroethane          | ug/L  | 3.5                   | 3.5           | 1   | 20         |            |
| 1,1-Dichloroethene          | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,2,3-Trichlorobenzene      | ug/L  | ND                    | <5.0          |     | 20         |            |
| 1,2,3-Trichloropropane      | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,2,3-Trimethylbenzene      | ug/L  | ND                    | <5.0          |     | 20         | N2         |
| 1,2,4-Trichlorobenzene      | ug/L  | ND                    | <5.0          |     | 20         |            |
| 1,2,4-Trimethylbenzene      | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | ND                    | <0.25         |     | 20         |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | ND                    | <0.23         |     | 20         |            |
| 1,2-Dichlorobenzene         | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,2-Dichloroethane          | ug/L  | 0.74J                 | <1.0          |     | 20         |            |
| 1,2-Dichloropropane         | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,3,5-Trimethylbenzene      | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,3-Dichlorobenzene         | ug/L  | ND                    | <1.0          |     | 20         |            |
| 1,4-Dichlorobenzene         | ug/L  | ND                    | <1.0          |     | 20         |            |
| 2-Butanone (MEK)            | ug/L  | ND                    | <25.0         |     | 20         |            |
| 2-Hexanone                  | ug/L  | ND                    | <50.0         |     | 20         |            |
| 2-Methylnaphthalene         | ug/L  | ND                    | <5.0          |     | 20         |            |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | ND                    | <50.0         |     | 20         |            |
| Acetone                     | ug/L  | ND                    | <50.0         |     | 20         |            |
| Acrylonitrile               | ug/L  | ND                    | <2.0          |     | 20         |            |
| Benzene                     | ug/L  | ND                    | <1.0          |     | 20         |            |
| Bromobenzene                | ug/L  | ND                    | <1.0          |     | 20         |            |
| Bromochloromethane          | ug/L  | ND                    | <0.59         |     | 20         |            |
| Bromodichloromethane        | ug/L  | ND                    | <1.0          |     | 20         |            |
| Bromoform                   | ug/L  | ND                    | <1.0          |     | 20         |            |
| Bromomethane                | ug/L  | ND                    | <5.0          |     | 20         |            |
| Carbon disulfide            | ug/L  | ND                    | <5.0          |     | 20         |            |
| Carbon tetrachloride        | ug/L  | ND                    | <1.0          |     | 20         |            |
| Chlorobenzene               | ug/L  | ND                    | <1.0          |     | 20         |            |
| Chloroethane                | ug/L  | 0.69J                 | <5.0          |     | 20         |            |
| Chloroform                  | ug/L  | ND                    | <1.0          |     | 20         |            |
| Chloromethane               | ug/L  | ND                    | <5.0          |     | 20         |            |
| cis-1,2-Dichloroethene      | ug/L  | 4.6                   | 4.4           | 4   | 20         |            |
| cis-1,3-Dichloropropene     | ug/L  | ND                    | <100          |     | 20         |            |
| Cyclohexane                 | ug/L  | ND                    | <10.0         |     | 20         | N2         |
| Dibromochloromethane        | ug/L  | ND                    | <5.0          |     | 20         |            |
| Dibromomethane              | ug/L  | ND                    | <5.0          |     | 20         |            |
| Dichlorodifluoromethane     | ug/L  | ND                    | <5.0          |     | 20         |            |
| Diethyl ether (Ethyl ether) | ug/L  | ND                    | <5.0          |     | 20         |            |
| Diisopropyl ether           | ug/L  | ND                    | <5.0          |     | 20         | N2         |
| Ethyl-tert-butyl ether      | ug/L  | ND                    | <5.0          |     | 20         | N2         |
| Ethylbenzene                | ug/L  | ND                    | <1.0          |     | 20         |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260974

SAMPLE DUPLICATE: 2628826

| Parameter                   | Units | 50260996002<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|-----------------------------|-------|-----------------------|---------------|-----|------------|------------|
| Hexachloroethane            | ug/L  | ND                    | <5.0          |     | 20         | N2         |
| Iodomethane                 | ug/L  | ND                    | <0.45         |     | 20         |            |
| Isopropylbenzene (Cumene)   | ug/L  | ND                    | <5.0          |     | 20         |            |
| m&p-Xylene                  | ug/L  | ND                    | <0.16         |     | 20         |            |
| Methyl-tert-butyl ether     | ug/L  | ND                    | <5.0          |     | 20         |            |
| Methylene Chloride          | ug/L  | ND                    | <5.0          |     | 20         |            |
| n-Butylbenzene              | ug/L  | ND                    | <1.0          |     | 20         |            |
| n-Propylbenzene             | ug/L  | ND                    | <100          |     | 20         |            |
| Naphthalene                 | ug/L  | ND                    | <5.0          |     | 20         |            |
| o-Xylene                    | ug/L  | ND                    | <0.39         |     | 20         |            |
| p-Isopropyltoluene          | ug/L  | ND                    | <0.28         |     | 20         |            |
| sec-Butylbenzene            | ug/L  | ND                    | <1.0          |     | 20         |            |
| Styrene                     | ug/L  | ND                    | <1.0          |     | 20         |            |
| tert-Amylmethyl ether       | ug/L  | ND                    | <5.0          |     | 20         | N2         |
| tert-Butyl Alcohol          | ug/L  | 8.8J                  | <50.0         |     | 20         |            |
| tert-Butylbenzene           | ug/L  | ND                    | <1.0          |     | 20         |            |
| Tetrachloroethene           | ug/L  | ND                    | <1.0          |     | 20         |            |
| Tetrahydrofuran             | ug/L  | ND                    | <90.0         |     | 20         | N2         |
| Toluene                     | ug/L  | 0.085J                | <1.0          |     | 20         |            |
| trans-1,2-Dichloroethene    | ug/L  | ND                    | <1.0          |     | 20         |            |
| trans-1,3-Dichloropropene   | ug/L  | ND                    | <100          |     | 20         |            |
| trans-1,4-Dichloro-2-butene | ug/L  | ND                    | <0.82         |     | 20         |            |
| Trichloroethene             | ug/L  | ND                    | <1.0          |     | 20         |            |
| Trichlorofluoromethane      | ug/L  | ND                    | <1.0          |     | 20         |            |
| Vinyl chloride              | ug/L  | 6.9                   | 7.5           | 7   | 20         |            |
| 4-Bromofluorobenzene (S)    | %     | 98                    | 97            |     |            |            |
| Dibromofluoromethane (S)    | %     | 104                   | 105           |     |            |            |
| Toluene-d8 (S)              | %     | 109                   | 109           |     |            |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

QC Batch: 569770 Analysis Method: EPA 5030B/8260  
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Low Level  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50260974001, 50260974002, 50260974003, 50260974004, 50260974005, 50260974006, 50260974007, 50260974008, 50260974009, 50260974010, 50260974011, 50260974012, 50260974013, 50260974014

METHOD BLANK: 2628832 Matrix: Water  
Associated Lab Samples: 50260974001, 50260974002, 50260974003, 50260974004, 50260974005, 50260974006, 50260974007, 50260974008, 50260974009, 50260974010, 50260974011, 50260974012, 50260974013, 50260974014

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:52 |            |
| 1,1,1-Trichloroethane       | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:52 |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:52 |            |
| 1,1,2-Trichloroethane       | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:52 |            |
| 1,1-Dichloroethane          | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:52 |            |
| 1,1-Dichloroethene          | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:52 |            |
| 1,2,3-Trichlorobenzene      | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:52 |            |
| 1,2,3-Trichloropropane      | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:52 |            |
| 1,2,3-Trimethylbenzene      | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:52 | N2         |
| 1,2,4-Trichlorobenzene      | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:52 |            |
| 1,2,4-Trimethylbenzene      | ug/L  | <1.0         | 5.0             | 1.0  | 06/29/20 23:52 |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | <0.25        | 0.50            | 0.25 | 06/29/20 23:52 |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | <0.23        | 0.50            | 0.23 | 06/29/20 23:52 |            |
| 1,2-Dichlorobenzene         | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:52 |            |
| 1,2-Dichloroethane          | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:52 |            |
| 1,2-Dichloropropane         | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:52 |            |
| 1,3,5-Trimethylbenzene      | ug/L  | <1.0         | 5.0             | 1.0  | 06/29/20 23:52 |            |
| 1,3-Dichlorobenzene         | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:52 |            |
| 1,4-Dichlorobenzene         | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:52 |            |
| 2-Butanone (MEK)            | ug/L  | <25.0        | 25.0            | 25.0 | 06/29/20 23:52 |            |
| 2-Hexanone                  | ug/L  | <50.0        | 50.0            | 50.0 | 06/29/20 23:52 |            |
| 2-Methylnaphthalene         | ug/L  | <5.0         | 20.0            | 5.0  | 06/29/20 23:52 |            |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | <50.0        | 50.0            | 50.0 | 06/29/20 23:52 |            |
| Acetone                     | ug/L  | <50.0        | 50.0            | 50.0 | 06/29/20 23:52 |            |
| Acrylonitrile               | ug/L  | <2.0         | 2.0             | 2.0  | 06/29/20 23:52 |            |
| Benzene                     | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:52 |            |
| Bromobenzene                | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:52 |            |
| Bromochloromethane          | ug/L  | <0.22        | 1.0             | 0.22 | 06/29/20 23:52 |            |
| Bromodichloromethane        | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:52 |            |
| Bromoform                   | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:52 |            |
| Bromomethane                | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:52 |            |
| Carbon disulfide            | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:52 |            |
| Carbon tetrachloride        | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:52 |            |
| Chlorobenzene               | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:52 |            |
| Chloroethane                | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:52 |            |
| Chloroform                  | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:52 |            |
| Chloromethane               | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:52 |            |
| cis-1,2-Dichloroethene      | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:52 |            |
| cis-1,3-Dichloropropene     | ug/L  | <100         | 100             | 100  | 06/29/20 23:52 |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

METHOD BLANK: 2628832

Matrix: Water

Associated Lab Samples: 50260974001, 50260974002, 50260974003, 50260974004, 50260974005, 50260974006, 50260974007, 50260974008, 50260974009, 50260974010, 50260974011, 50260974012, 50260974013, 50260974014

| Parameter                   | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|------|----------------|------------|
| Cyclohexane                 | ug/L  | <10.0        | 10.0            | 10.0 | 06/29/20 23:52 | N2         |
| Dibromochloromethane        | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:52 |            |
| Dibromomethane              | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:52 |            |
| Dichlorodifluoromethane     | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:52 |            |
| Diethyl ether (Ethyl ether) | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:52 |            |
| Diisopropyl ether           | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:52 | N2         |
| Ethyl-tert-butyl ether      | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:52 | N2         |
| Ethylbenzene                | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:52 |            |
| Hexachloroethane            | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:52 | N2         |
| Iodomethane                 | ug/L  | <0.51        | 5.0             | 0.51 | 06/29/20 23:52 |            |
| Isopropylbenzene (Cumene)   | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:52 |            |
| m&p-Xylene                  | ug/L  | <0.24        | 2.0             | 0.24 | 06/29/20 23:52 |            |
| Methyl-tert-butyl ether     | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:52 |            |
| Methylene Chloride          | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:52 |            |
| n-Butylbenzene              | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:52 |            |
| n-Propylbenzene             | ug/L  | <100         | 100             | 100  | 06/29/20 23:52 |            |
| Naphthalene                 | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:52 |            |
| o-Xylene                    | ug/L  | <0.16        | 1.0             | 0.16 | 06/29/20 23:52 |            |
| p-Isopropyltoluene          | ug/L  | <0.11        | 1.0             | 0.11 | 06/29/20 23:52 |            |
| sec-Butylbenzene            | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:52 |            |
| Styrene                     | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:52 |            |
| tert-Amylmethyl ether       | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 23:52 | N2         |
| tert-Butyl Alcohol          | ug/L  | <50.0        | 50.0            | 50.0 | 06/29/20 23:52 |            |
| tert-Butylbenzene           | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:52 |            |
| Tetrachloroethane           | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:52 |            |
| Tetrahydrofuran             | ug/L  | <90.0        | 90.0            | 90.0 | 06/29/20 23:52 | N2         |
| Toluene                     | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:52 |            |
| trans-1,2-Dichloroethane    | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:52 |            |
| trans-1,3-Dichloropropene   | ug/L  | <100         | 100             | 100  | 06/29/20 23:52 |            |
| trans-1,4-Dichloro-2-butene | ug/L  | <0.40        | 100             | 0.40 | 06/29/20 23:52 |            |
| Trichloroethene             | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:52 |            |
| Trichlorofluoromethane      | ug/L  | <1.0         | 2.0             | 1.0  | 06/29/20 23:52 |            |
| Vinyl chloride              | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 23:52 |            |
| 4-Bromofluorobenzene (S)    | %     | 103          | 85-116          |      | 06/29/20 23:52 |            |
| Dibromofluoromethane (S)    | %     | 99           | 75-120          |      | 06/29/20 23:52 |            |
| Toluene-d8 (S)              | %     | 107          | 83-111          |      | 06/29/20 23:52 |            |

LABORATORY CONTROL SAMPLE: 2628833

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/L  | 50          | 46.0       | 92        | 78-120       |            |
| 1,1,1-Trichloroethane     | ug/L  | 50          | 50.0       | 100       | 78-130       |            |
| 1,1,2,2-Tetrachloroethane | ug/L  | 50          | 52.6       | 105       | 64-126       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260974

LABORATORY CONTROL SAMPLE: 2628833

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,2-Trichloroethane       | ug/L  | 50          | 48.5       | 97        | 73-125       |            |
| 1,1-Dichloroethane          | ug/L  | 50          | 53.7       | 107       | 77-123       |            |
| 1,1-Dichloroethene          | ug/L  | 50          | 51.1       | 102       | 79-128       |            |
| 1,2,3-Trichlorobenzene      | ug/L  | 50          | 43.8       | 88        | 75-126       |            |
| 1,2,3-Trichloropropane      | ug/L  | 50          | 44.0       | 88        | 71-131       |            |
| 1,2,4-Trichlorobenzene      | ug/L  | 50          | 44.8       | 90        | 76-130       |            |
| 1,2,4-Trimethylbenzene      | ug/L  | 50          | 46.4       | 93        | 76-119       |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | 50          | 41.9       | 84        | 71-133       |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | 50          | 45.7       | 91        | 76-122       |            |
| 1,2-Dichlorobenzene         | ug/L  | 50          | 43.5       | 87        | 79-113       |            |
| 1,2-Dichloroethane          | ug/L  | 50          | 45.3       | 91        | 66-127       |            |
| 1,2-Dichloropropane         | ug/L  | 50          | 52.8       | 106       | 75-127       |            |
| 1,3,5-Trimethylbenzene      | ug/L  | 50          | 46.9       | 94        | 78-116       |            |
| 1,3-Dichlorobenzene         | ug/L  | 50          | 43.7       | 87        | 79-120       |            |
| 1,4-Dichlorobenzene         | ug/L  | 50          | 42.1       | 84        | 77-117       |            |
| 2-Butanone (MEK)            | ug/L  | 250         | 226        | 90        | 61-138       |            |
| 2-Hexanone                  | ug/L  | 250         | 302        | 121       | 58-138       |            |
| 2-Methylnaphthalene         | ug/L  | 50          | 39.1       | 78        | 60-136       |            |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | 250         | 254        | 102       | 60-131       |            |
| Acetone                     | ug/L  | 250         | 275        | 110       | 57-126       |            |
| Acrylonitrile               | ug/L  | 200         | 187        | 94        | 65-127       |            |
| Benzene                     | ug/L  | 50          | 48.7       | 97        | 75-118       |            |
| Bromobenzene                | ug/L  | 50          | 47.5       | 95        | 68-127       |            |
| Bromochloromethane          | ug/L  | 50          | 44.8       | 90        | 66-126       |            |
| Bromodichloromethane        | ug/L  | 50          | 46.1       | 92        | 75-120       |            |
| Bromoform                   | ug/L  | 50          | 39.5       | 79        | 61-119       |            |
| Bromomethane                | ug/L  | 50          | 31.3       | 63        | 12-184       |            |
| Carbon disulfide            | ug/L  | 50          | 53.5       | 107       | 71-123       |            |
| Carbon tetrachloride        | ug/L  | 50          | 52.6       | 105       | 73-125       |            |
| Chlorobenzene               | ug/L  | 50          | 48.0       | 96        | 80-115       |            |
| Chloroethane                | ug/L  | 50          | 40.8       | 82        | 46-133       |            |
| Chloroform                  | ug/L  | 50          | 44.1       | 88        | 75-117       |            |
| Chloromethane               | ug/L  | 50          | 44.0       | 88        | 33-124       |            |
| cis-1,2-Dichloroethene      | ug/L  | 50          | 46.7       | 93        | 76-120       |            |
| cis-1,3-Dichloropropene     | ug/L  | 50          | <100       | 102       | 73-130       |            |
| Cyclohexane                 | ug/L  | 50          | 57.8       | 116       | 58-122 N2    |            |
| Dibromochloromethane        | ug/L  | 50          | 45.7       | 91        | 69-124       |            |
| Dibromomethane              | ug/L  | 50          | 46.6       | 93        | 76-124       |            |
| Dichlorodifluoromethane     | ug/L  | 50          | 77.0       | 154       | 36-145 L1    |            |
| Diethyl ether (Ethyl ether) | ug/L  | 50          | 48.9       | 98        | 70-130       |            |
| Ethylbenzene                | ug/L  | 50          | 48.6       | 97        | 78-120       |            |
| Iodomethane                 | ug/L  | 100         | 54.7       | 55        | 10-184       |            |
| Isopropylbenzene (Cumene)   | ug/L  | 50          | 50.0       | 100       | 82-122       |            |
| m&p-Xylene                  | ug/L  | 100         | 98.2       | 98        | 79-118       |            |
| Methyl-tert-butyl ether     | ug/L  | 50          | 47.6       | 95        | 79-125       |            |
| Methylene Chloride          | ug/L  | 50          | 50.8       | 102       | 68-126       |            |
| n-Butylbenzene              | ug/L  | 50          | 49.9       | 100       | 73-123       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

LABORATORY CONTROL SAMPLE: 2628833

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| n-Propylbenzene             | ug/L  | 50          | <100       | 99        | 75-119       |            |
| Naphthalene                 | ug/L  | 50          | 47.9       | 96        | 70-130       |            |
| o-Xylene                    | ug/L  | 50          | 48.5       | 97        | 78-121       |            |
| p-Isopropyltoluene          | ug/L  | 50          | 48.2       | 96        | 82-119       |            |
| sec-Butylbenzene            | ug/L  | 50          | 48.9       | 98        | 79-119       |            |
| Styrene                     | ug/L  | 50          | 48.0       | 96        | 80-121       |            |
| tert-Butyl Alcohol          | ug/L  | 100         | 151        | 151       | 10-200       |            |
| tert-Butylbenzene           | ug/L  | 50          | 36.2       | 72        | 58-106       |            |
| Tetrachloroethene           | ug/L  | 50          | 47.7       | 95        | 70-123       |            |
| Tetrahydrofuran             | ug/L  | 50          | <90.0      | 99        | 50-150       | N2         |
| Toluene                     | ug/L  | 50          | 50.4       | 101       | 72-114       |            |
| trans-1,2-Dichloroethene    | ug/L  | 50          | 48.8       | 98        | 79-126       |            |
| trans-1,3-Dichloropropene   | ug/L  | 50          | <100       | 90        | 68-122       |            |
| trans-1,4-Dichloro-2-butene | ug/L  | 200         | 173        | 87        | 34-130       |            |
| Trichloroethene             | ug/L  | 50          | 47.5       | 95        | 78-120       |            |
| Trichlorofluoromethane      | ug/L  | 50          | 56.7       | 113       | 57-156       |            |
| Vinyl chloride              | ug/L  | 50          | 54.2       | 108       | 55-122       |            |
| 4-Bromofluorobenzene (S)    | %     |             |            | 106       | 85-116       |            |
| Dibromofluoromethane (S)    | %     |             |            | 99        | 75-120       |            |
| Toluene-d8 (S)              | %     |             |            | 104       | 83-111       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

QC Batch: 570077 Analysis Method: EPA 8082  
QC Batch Method: EPA 3510 Analysis Description: 8082 GCS PCB Mod  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50260974002, 50260974004, 50260974006, 50260974008, 50260974009

METHOD BLANK: 2630095 Matrix: Water  
Associated Lab Samples: 50260974002, 50260974004, 50260974006, 50260974008, 50260974009

| Parameter                | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|--------------------------|-------|--------------|-----------------|------|----------------|------------|
| PCB-1016 (Aroclor 1016)  | ug/L  | <0.20        | 0.20            | 0.20 | 07/02/20 03:24 |            |
| PCB-1221 (Aroclor 1221)  | ug/L  | <0.20        | 0.20            | 0.20 | 07/02/20 03:24 |            |
| PCB-1232 (Aroclor 1232)  | ug/L  | <0.20        | 0.20            | 0.20 | 07/02/20 03:24 |            |
| PCB-1242 (Aroclor 1242)  | ug/L  | <0.20        | 0.20            | 0.20 | 07/02/20 03:24 |            |
| PCB-1248 (Aroclor 1248)  | ug/L  | <0.20        | 0.20            | 0.20 | 07/02/20 03:24 |            |
| PCB-1254 (Aroclor 1254)  | ug/L  | <0.20        | 0.20            | 0.20 | 07/02/20 03:24 |            |
| PCB-1260 (Aroclor 1260)  | ug/L  | <0.20        | 0.20            | 0.20 | 07/02/20 03:24 |            |
| PCB-1262 (Aroclor 1262)  | ug/L  | <0.20        | 0.20            | 0.20 | 07/02/20 03:24 | N2         |
| PCB-1268 (Aroclor 1268)  | ug/L  | <0.20        | 0.20            | 0.20 | 07/02/20 03:24 | N2         |
| Tetrachloro-m-xylene (S) | %     | 39           | 10-144          |      | 07/02/20 03:24 |            |

LABORATORY CONTROL SAMPLE: 2630096

| Parameter                | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| PCB-1016 (Aroclor 1016)  | ug/L  | 5           | 3.0        | 60        | 45-148       |            |
| PCB-1260 (Aroclor 1260)  | ug/L  | 5           | 4.0        | 79        | 48-142       |            |
| Tetrachloro-m-xylene (S) | %     |             |            | 48        | 10-144       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2630097 2630098

| Parameter                | Units | MS                 |             | MSD         |        | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |
|--------------------------|-------|--------------------|-------------|-------------|--------|----------|-----------|--------------|--------|---------|------|
|                          |       | 50261148005 Result | Spike Conc. | Spike Conc. | Result |          |           |              |        |         |      |
| PCB-1016 (Aroclor 1016)  | ug/L  | ND                 | 4.8         | 5           | 2.9    | 3.2      | 62        | 63           | 10-165 | 8       | 20   |
| PCB-1260 (Aroclor 1260)  | ug/L  | ND                 | 4.8         | 5           | 4.3    | 4.0      | 91        | 81           | 10-155 | 7       | 20   |
| Tetrachloro-m-xylene (S) | %     |                    |             |             |        |          | 40        | 45           | 10-144 |         |      |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

QC Batch: 569662 Analysis Method: EPA 8270 by SIM  
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH Low Volume  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50260974001, 50260974002, 50260974003, 50260974004, 50260974005, 50260974006, 50260974007, 50260974008, 50260974009, 50260974010, 50260974011, 50260974012, 50260974013

METHOD BLANK: 2628493 Matrix: Water  
Associated Lab Samples: 50260974001, 50260974002, 50260974003, 50260974004, 50260974005, 50260974006, 50260974007, 50260974008, 50260974009, 50260974010, 50260974011, 50260974012, 50260974013

| Parameter              | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|------------------------|-------|--------------|-----------------|------|----------------|------------|
| 2-Methylnaphthalene    | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 18:04 |            |
| Acenaphthene           | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 18:04 |            |
| Acenaphthylene         | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 18:04 |            |
| Anthracene             | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 18:04 |            |
| Benzo(a)anthracene     | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 18:04 |            |
| Benzo(a)pyrene         | ug/L  | <0.20        | 0.20            | 0.20 | 06/29/20 18:04 |            |
| Benzo(b)fluoranthene   | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 18:04 |            |
| Benzo(g,h,i)perylene   | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 18:04 |            |
| Benzo(k)fluoranthene   | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 18:04 |            |
| Chrysene               | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 18:04 |            |
| Dibenz(a,h)anthracene  | ug/L  | <2.0         | 2.0             | 2.0  | 06/29/20 18:04 |            |
| Fluoranthene           | ug/L  | <1.0         | 1.0             | 1.0  | 06/29/20 18:04 |            |
| Fluorene               | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 18:04 |            |
| Indeno(1,2,3-cd)pyrene | ug/L  | <2.0         | 2.0             | 2.0  | 06/29/20 18:04 |            |
| Naphthalene            | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 18:04 |            |
| Phenanthrene           | ug/L  | <2.0         | 2.0             | 2.0  | 06/29/20 18:04 |            |
| Pyrene                 | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 18:04 |            |
| 2-Fluorobiphenyl (S)   | %     | 61           | 32-107          |      | 06/29/20 18:04 |            |
| p-Terphenyl-d14 (S)    | %     | 93           | 29-143          |      | 06/29/20 18:04 |            |

LABORATORY CONTROL SAMPLE: 2628494

| Parameter              | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| 2-Methylnaphthalene    | ug/L  | 10          | 5.8        | 58        | 44-105       |            |
| Acenaphthene           | ug/L  | 10          | 6.7        | 67        | 53-102       |            |
| Acenaphthylene         | ug/L  | 10          | 6.8        | 68        | 56-105       |            |
| Anthracene             | ug/L  | 10          | 7.2        | 72        | 56-125       |            |
| Benzo(a)anthracene     | ug/L  | 10          | 7.2        | 72        | 55-134       |            |
| Benzo(a)pyrene         | ug/L  | 10          | 7.7        | 77        | 38-123       |            |
| Benzo(b)fluoranthene   | ug/L  | 10          | 9.4        | 94        | 46-139       |            |
| Benzo(g,h,i)perylene   | ug/L  | 10          | 7.4        | 74        | 27-113       |            |
| Benzo(k)fluoranthene   | ug/L  | 10          | 8.1        | 81        | 39-126       |            |
| Chrysene               | ug/L  | 10          | 7.8        | 78        | 65-120       |            |
| Dibenz(a,h)anthracene  | ug/L  | 10          | 7.7        | 77        | 23-119       |            |
| Fluoranthene           | ug/L  | 10          | 8.6        | 86        | 61-133       |            |
| Fluorene               | ug/L  | 10          | 7.3        | 73        | 53-126       |            |
| Indeno(1,2,3-cd)pyrene | ug/L  | 10          | 7.6        | 76        | 30-118       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260974

LABORATORY CONTROL SAMPLE: 2628494

| Parameter            | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|-------------|------------|-----------|--------------|------------|
| Naphthalene          | ug/L  | 10          | 5.9        | 59        | 45-96        |            |
| Phenanthrene         | ug/L  | 10          | 7.7        | 77        | 59-131       |            |
| Pyrene               | ug/L  | 10          | 7.4        | 74        | 60-142       |            |
| 2-Fluorobiphenyl (S) | %     |             |            | 70        | 32-107       |            |
| p-Terphenyl-d14 (S)  | %     |             |            | 86        | 29-143       |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

QC Batch: 569661 Analysis Method: EPA 8270  
QC Batch Method: EPA 3510 Analysis Description: 8270 Water Scan LV  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50260974001, 50260974002, 50260974003, 50260974004, 50260974005, 50260974006, 50260974007, 50260974008, 50260974009, 50260974010, 50260974011, 50260974012, 50260974013

METHOD BLANK: 2628491 Matrix: Water  
Associated Lab Samples: 50260974001, 50260974002, 50260974003, 50260974004, 50260974005, 50260974006, 50260974007, 50260974008, 50260974009, 50260974010, 50260974011, 50260974012, 50260974013

| Parameter                    | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|------------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,2,4-Trichlorobenzene       | ug/L  | <1.1         | 10.0            | 1.1  | 06/29/20 17:59 |            |
| 1,2-Diphenylhydrazine        | ug/L  | <3.7         | 10.0            | 3.7  | 06/29/20 17:59 |            |
| 2,4,5-Trichlorophenol        | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 17:59 |            |
| 2,4,6-Trichlorophenol        | ug/L  | <4.0         | 5.0             | 4.0  | 06/29/20 17:59 |            |
| 2,4-Dichlorophenol           | ug/L  | <10.0        | 10.0            | 10.0 | 06/29/20 17:59 |            |
| 2,4-Dimethylphenol           | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 17:59 |            |
| 2,4-Dinitrophenol            | ug/L  | <3.9         | 50.0            | 3.9  | 06/29/20 17:59 |            |
| 2,4-Dinitrotoluene           | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 17:59 |            |
| 2,6-Dinitrotoluene           | ug/L  | <3.4         | 5.0             | 3.4  | 06/29/20 17:59 |            |
| 2-Chloronaphthalene          | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 17:59 |            |
| 2-Chlorophenol               | ug/L  | <10.0        | 10.0            | 10.0 | 06/29/20 17:59 |            |
| 2-Methylphenol(o-Cresol)     | ug/L  | <10.0        | 10.0            | 10.0 | 06/29/20 17:59 |            |
| 2-Nitroaniline               | ug/L  | <5.8         | 10.0            | 5.8  | 06/29/20 17:59 |            |
| 2-Nitrophenol                | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 17:59 |            |
| 3&4-Methylphenol(m&p Cresol) | ug/L  | <20.0        | 20.0            | 20.0 | 06/29/20 17:59 |            |
| 3-Nitroaniline               | ug/L  | <5.0         | 10.0            | 5.0  | 06/29/20 17:59 |            |
| 4,6-Dinitro-2-methylphenol   | ug/L  | <20.0        | 20.0            | 20.0 | 06/29/20 17:59 |            |
| 4-Bromophenylphenyl ether    | ug/L  | <3.6         | 10.0            | 3.6  | 06/29/20 17:59 |            |
| 4-Chloro-3-methylphenol      | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 17:59 |            |
| 4-Chlorophenylphenyl ether   | ug/L  | <2.9         | 10.0            | 2.9  | 06/29/20 17:59 |            |
| 4-Nitroaniline               | ug/L  | <4.9         | 10.0            | 4.9  | 06/29/20 17:59 |            |
| 4-Nitrophenol                | ug/L  | <6.0         | 50.0            | 6.0  | 06/29/20 17:59 |            |
| bis(2-Chloroethoxy)methane   | ug/L  | <3.8         | 10.0            | 3.8  | 06/29/20 17:59 |            |
| bis(2-Chloroethyl) ether     | ug/L  | <2.2         | 5.0             | 2.2  | 06/29/20 17:59 |            |
| bis(2-Chloroisopropyl) ether | ug/L  | <3.9         | 10.0            | 3.9  | 06/29/20 17:59 |            |
| bis(2-Ethylhexyl)phthalate   | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 17:59 |            |
| Butylbenzylphthalate         | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 17:59 |            |
| Carbazole                    | ug/L  | <10.0        | 10.0            | 10.0 | 06/29/20 17:59 |            |
| Di-n-butylphthalate          | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 17:59 |            |
| Di-n-octylphthalate          | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 17:59 |            |
| Dibenzofuran                 | ug/L  | <4.0         | 5.0             | 4.0  | 06/29/20 17:59 |            |
| Diethylphthalate             | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 17:59 |            |
| Dimethylphthalate            | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 17:59 |            |
| Hexachloro-1,3-butadiene     | ug/L  | <3.0         | 5.0             | 3.0  | 06/29/20 17:59 |            |
| Hexachlorobenzene            | ug/L  | <2.7         | 5.0             | 2.7  | 06/29/20 17:59 |            |
| Hexachlorocyclopentadiene    | ug/L  | <25.0        | 25.0            | 25.0 | 06/29/20 17:59 |            |
| Hexachloroethane             | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 17:59 |            |
| Isophorone                   | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 17:59 |            |
| N-Nitroso-di-n-propylamine   | ug/L  | <5.0         | 5.0             | 5.0  | 06/29/20 17:59 |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

METHOD BLANK: 2628491

Matrix: Water

Associated Lab Samples: 50260974001, 50260974002, 50260974003, 50260974004, 50260974005, 50260974006, 50260974007, 50260974008, 50260974009, 50260974010, 50260974011, 50260974012, 50260974013

| Parameter                | Units | Blank Result | Reporting Limit | MDL | Analyzed       | Qualifiers |
|--------------------------|-------|--------------|-----------------|-----|----------------|------------|
| N-Nitrosodimethylamine   | ug/L  | <2.9         | 10.0            | 2.9 | 06/29/20 17:59 |            |
| N-Nitrosodiphenylamine   | ug/L  | <5.0         | 5.0             | 5.0 | 06/29/20 17:59 |            |
| Nitrobenzene             | ug/L  | <3.0         | 5.0             | 3.0 | 06/29/20 17:59 |            |
| Pentachlorophenol        | ug/L  | <1.9         | 20.0            | 1.9 | 06/29/20 17:59 |            |
| Phenol                   | ug/L  | <5.0         | 5.0             | 5.0 | 06/29/20 17:59 |            |
| 2,4,6-Tribromophenol (S) | %     | 94           | 45-126          |     | 06/29/20 17:59 |            |
| 2-Fluorophenol (S)       | %     | 46           | 16-75           |     | 06/29/20 17:59 |            |
| Nitrobenzene-d5 (S)      | %     | 59           | 42-109          |     | 06/29/20 17:59 |            |
| Phenol-d5 (S)            | %     | 38           | 11-56           |     | 06/29/20 17:59 |            |

LABORATORY CONTROL SAMPLE: 2628492

| Parameter                  | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2,4-Trichlorobenzene     | ug/L  | 100         | 50.2       | 50        | 10-103       |            |
| 2,4-Dinitrotoluene         | ug/L  | 100         | 84.5       | 84        | 50-136       |            |
| 2-Chlorophenol             | ug/L  | 100         | 80.8       | 81        | 28-102       |            |
| 4-Chloro-3-methylphenol    | ug/L  | 100         | 99.4       | 99        | 38-126       |            |
| 4-Nitrophenol              | ug/L  | 100         | 69.1       | 69        | 10-75        |            |
| N-Nitroso-di-n-propylamine | ug/L  | 100         | 75.5       | 75        | 45-113       |            |
| Pentachlorophenol          | ug/L  | 100         | 102        | 102       | 29-146       |            |
| Phenol                     | ug/L  | 100         | 48.7       | 49        | 10-58        |            |
| 2,4,6-Tribromophenol (S)   | %     |             |            | 95        | 45-126       |            |
| 2-Fluorophenol (S)         | %     |             |            | 61        | 16-75        |            |
| Nitrobenzene-d5 (S)        | %     |             |            | 77        | 42-109       |            |
| Phenol-d5 (S)              | %     |             |            | 50        | 11-56        |            |

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### QUALITY CONTROL DATA

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

QC Batch: 570159 Analysis Method: EPA 9012  
QC Batch Method: EPA 9012 Analysis Description: 9012 Cyanide, Total  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50260974007, 50260974008, 50260974009, 50260974010, 50260974011, 50260974013

METHOD BLANK: 2630289 Matrix: Water  
Associated Lab Samples: 50260974007, 50260974008, 50260974009, 50260974010, 50260974011, 50260974013

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|-----|----------------|------------|
| Cyanide   | ug/L  | <5.0         | 5.0             | 5.0 | 07/02/20 16:02 |            |

LABORATORY CONTROL SAMPLE: 2630290

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Cyanide   | ug/L  | 100         | 100        | 100       | 90-110       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2630291 2630292

| Parameter | Units | 50260869009 Result | MS          | MSD         | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual  |
|-----------|-------|--------------------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|-------|
|           |       |                    | Spike Conc. | Spike Conc. |           |            |          |           |              |     |         |       |
| Cyanide   | ug/L  | <0.0029 mg/L       | 100         | 100         | 101       | 6.2        | 100      | 5         | 90-110       | 177 | 20      | M0,R1 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2630293 2630306

| Parameter | Units | 50261015003 Result | MS          | MSD         | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
|           |       |                    | Spike Conc. | Spike Conc. |           |            |          |           |              |     |         |      |
| Cyanide   | ug/L  | ND                 | 100         | 100         | 101       | 101        | 101      | 101       | 90-110       | 0   | 20      |      |

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 8 Mile Ferndale - Detroit Axle  
Pace Project No.: 50260974

| Lab ID      | Sample ID | QC Batch Method         | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-------------------------|----------|-------------------|------------------|
| 50260974004 | MW-125    | EPA 8015 Alcohol-Glycol | 569752   |                   |                  |
| 50260974006 | MW-130    | EPA 8015 Alcohol-Glycol | 569752   |                   |                  |
| 50260974008 | MW-127    | EPA 8015 Alcohol-Glycol | 569752   |                   |                  |
| 50260974009 | MW-128    | EPA 8015 Alcohol-Glycol | 569752   |                   |                  |
| 50260974002 | MW-123    | EPA 3510                | 570077   | EPA 8082          | 570169           |
| 50260974004 | MW-125    | EPA 3510                | 570077   | EPA 8082          | 570169           |
| 50260974006 | MW-130    | EPA 3510                | 570077   | EPA 8082          | 570169           |
| 50260974008 | MW-127    | EPA 3510                | 570077   | EPA 8082          | 570169           |
| 50260974009 | MW-128    | EPA 3510                | 570077   | EPA 8082          | 570169           |
| 50260974001 | MW-12     | EPA 3010                | 569644   | EPA 6010          | 570755           |
| 50260974002 | MW-123    | EPA 3010                | 569644   | EPA 6010          | 570755           |
| 50260974003 | MW-124    | EPA 3010                | 569644   | EPA 6010          | 570755           |
| 50260974004 | MW-125    | EPA 3010                | 569644   | EPA 6010          | 570755           |
| 50260974005 | MW-126    | EPA 3010                | 569644   | EPA 6010          | 570755           |
| 50260974006 | MW-130    | EPA 3010                | 569644   | EPA 6010          | 570755           |
| 50260974007 | MW-122    | EPA 3010                | 569644   | EPA 6010          | 570755           |
| 50260974008 | MW-127    | EPA 3010                | 569644   | EPA 6010          | 570755           |
| 50260974009 | MW-128    | EPA 3010                | 569644   | EPA 6010          | 570755           |
| 50260974010 | MW-129    | EPA 3010                | 569644   | EPA 6010          | 570755           |
| 50260974011 | MW-131    | EPA 3010                | 569644   | EPA 6010          | 570755           |
| 50260974012 | DUP-1     | EPA 3010                | 569644   | EPA 6010          | 570755           |
| 50260974013 | DUP-3     | EPA 3010                | 569644   | EPA 6010          | 570755           |
| 50260974001 | MW-12     | EPA 200.2               | 569653   | EPA 6020          | 570062           |
| 50260974002 | MW-123    | EPA 200.2               | 569653   | EPA 6020          | 570062           |
| 50260974003 | MW-124    | EPA 200.2               | 569653   | EPA 6020          | 570062           |
| 50260974004 | MW-125    | EPA 200.2               | 569653   | EPA 6020          | 570062           |
| 50260974005 | MW-126    | EPA 200.2               | 569653   | EPA 6020          | 570062           |
| 50260974006 | MW-130    | EPA 200.2               | 569653   | EPA 6020          | 570062           |
| 50260974007 | MW-122    | EPA 200.2               | 569653   | EPA 6020          | 570062           |
| 50260974008 | MW-127    | EPA 200.2               | 569653   | EPA 6020          | 570062           |
| 50260974009 | MW-128    | EPA 200.2               | 569653   | EPA 6020          | 570062           |
| 50260974010 | MW-129    | EPA 200.2               | 569653   | EPA 6020          | 570062           |
| 50260974011 | MW-131    | EPA 200.2               | 569653   | EPA 6020          | 570062           |
| 50260974012 | DUP-1     | EPA 200.2               | 569653   | EPA 6020          | 570062           |
| 50260974013 | DUP-3     | EPA 200.2               | 569653   | EPA 6020          | 570062           |
| 50260974001 | MW-12     | EPA 7470                | 569860   | EPA 7470          | 570304           |
| 50260974002 | MW-123    | EPA 7470                | 569860   | EPA 7470          | 570304           |
| 50260974003 | MW-124    | EPA 7470                | 569860   | EPA 7470          | 570304           |
| 50260974004 | MW-125    | EPA 7470                | 569860   | EPA 7470          | 570304           |
| 50260974005 | MW-126    | EPA 7470                | 569860   | EPA 7470          | 570304           |
| 50260974006 | MW-130    | EPA 7470                | 569860   | EPA 7470          | 570304           |
| 50260974007 | MW-122    | EPA 7470                | 569860   | EPA 7470          | 570304           |
| 50260974008 | MW-127    | EPA 7470                | 569860   | EPA 7470          | 570304           |
| 50260974009 | MW-128    | EPA 7470                | 569860   | EPA 7470          | 570304           |
| 50260974010 | MW-129    | EPA 7470                | 569860   | EPA 7470          | 570304           |
| 50260974011 | MW-131    | EPA 7470                | 569860   | EPA 7470          | 570304           |
| 50260974012 | DUP-1     | EPA 7470                | 569860   | EPA 7470          | 570304           |

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260974

| Lab ID      | Sample ID | QC Batch Method     | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|---------------------|----------|-------------------|------------------|
| 50260974013 | DUP-3     | EPA 7470            | 569860   | EPA 7470          | 570304           |
| 50260974001 | MW-12     | EPA 3510            | 569662   | EPA 8270 by SIM   | 569818           |
| 50260974002 | MW-123    | EPA 3510            | 569662   | EPA 8270 by SIM   | 569818           |
| 50260974003 | MW-124    | EPA 3510            | 569662   | EPA 8270 by SIM   | 569818           |
| 50260974004 | MW-125    | EPA 3510            | 569662   | EPA 8270 by SIM   | 569818           |
| 50260974005 | MW-126    | EPA 3510            | 569662   | EPA 8270 by SIM   | 569818           |
| 50260974006 | MW-130    | EPA 3510            | 569662   | EPA 8270 by SIM   | 569818           |
| 50260974007 | MW-122    | EPA 3510            | 569662   | EPA 8270 by SIM   | 569818           |
| 50260974008 | MW-127    | EPA 3510            | 569662   | EPA 8270 by SIM   | 569818           |
| 50260974009 | MW-128    | EPA 3510            | 569662   | EPA 8270 by SIM   | 569818           |
| 50260974010 | MW-129    | EPA 3510            | 569662   | EPA 8270 by SIM   | 569818           |
| 50260974011 | MW-131    | EPA 3510            | 569662   | EPA 8270 by SIM   | 569818           |
| 50260974012 | DUP-1     | EPA 3510            | 569662   | EPA 8270 by SIM   | 569818           |
| 50260974013 | DUP-3     | EPA 3510            | 569662   | EPA 8270 by SIM   | 569818           |
| 50260974001 | MW-12     | EPA 3510            | 569661   | EPA 8270          | 569819           |
| 50260974002 | MW-123    | EPA 3510            | 569661   | EPA 8270          | 569819           |
| 50260974003 | MW-124    | EPA 3510            | 569661   | EPA 8270          | 569819           |
| 50260974004 | MW-125    | EPA 3510            | 569661   | EPA 8270          | 569819           |
| 50260974005 | MW-126    | EPA 3510            | 569661   | EPA 8270          | 569819           |
| 50260974006 | MW-130    | EPA 3510            | 569661   | EPA 8270          | 569819           |
| 50260974007 | MW-122    | EPA 3510            | 569661   | EPA 8270          | 569819           |
| 50260974008 | MW-127    | EPA 3510            | 569661   | EPA 8270          | 569819           |
| 50260974009 | MW-128    | EPA 3510            | 569661   | EPA 8270          | 569819           |
| 50260974010 | MW-129    | EPA 3510            | 569661   | EPA 8270          | 569819           |
| 50260974011 | MW-131    | EPA 3510            | 569661   | EPA 8270          | 569819           |
| 50260974012 | DUP-1     | EPA 3510            | 569661   | EPA 8270          | 569819           |
| 50260974013 | DUP-3     | EPA 3510            | 569661   | EPA 8270          | 569819           |
| 50260974005 | MW-126    | EPA 8260C SIM/5030C | 167346   |                   |                  |
| 50260974007 | MW-122    | EPA 8260C SIM/5030C | 167346   |                   |                  |
| 50260974008 | MW-127    | EPA 8260C SIM/5030C | 167346   |                   |                  |
| 50260974009 | MW-128    | EPA 8260C SIM/5030C | 167346   |                   |                  |
| 50260974010 | MW-129    | EPA 8260C SIM/5030C | 167346   |                   |                  |
| 50260974011 | MW-131    | EPA 8260C SIM/5030C | 167346   |                   |                  |
| 50260974013 | DUP-3     | EPA 8260C SIM/5030C | 167346   |                   |                  |
| 50260974001 | MW-12     | EPA 5030B/8260      | 569770   |                   |                  |
| 50260974002 | MW-123    | EPA 5030B/8260      | 569770   |                   |                  |
| 50260974003 | MW-124    | EPA 5030B/8260      | 569770   |                   |                  |
| 50260974004 | MW-125    | EPA 5030B/8260      | 569770   |                   |                  |
| 50260974005 | MW-126    | EPA 5030B/8260      | 569770   |                   |                  |
| 50260974006 | MW-130    | EPA 5030B/8260      | 569770   |                   |                  |
| 50260974007 | MW-122    | EPA 5030B/8260      | 569770   |                   |                  |
| 50260974008 | MW-127    | EPA 5030B/8260      | 569770   |                   |                  |
| 50260974009 | MW-128    | EPA 5030B/8260      | 569770   |                   |                  |
| 50260974010 | MW-129    | EPA 5030B/8260      | 569770   |                   |                  |
| 50260974011 | MW-131    | EPA 5030B/8260      | 569770   |                   |                  |
| 50260974012 | DUP-1     | EPA 5030B/8260      | 569770   |                   |                  |
| 50260974013 | DUP-3     | EPA 5030B/8260      | 569770   |                   |                  |

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 8 Mile Ferndale - Detroit Axle

Pace Project No.: 50260974

| Lab ID      | Sample ID   | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-------------|-----------------|----------|-------------------|------------------|
| 50260974014 | Trip Blank  | EPA 5030B/8260  | 569770   |                   |                  |
| 50260974015 | Field Blank | EPA 5030B/8260  | 569767   |                   |                  |
| 50260974016 | Trip Blank  | EPA 5030B/8260  | 569767   |                   |                  |
| 50260974017 | Field Blank | EPA 5030B/8260  | 569767   |                   |                  |
| 50260974007 | MW-122      | EPA 9012        | 570159   | EPA 9012          | 570382           |
| 50260974008 | MW-127      | EPA 9012        | 570159   | EPA 9012          | 570382           |
| 50260974009 | MW-128      | EPA 9012        | 570159   | EPA 9012          | 570382           |
| 50260974010 | MW-129      | EPA 9012        | 570159   | EPA 9012          | 570382           |
| 50260974011 | MW-131      | EPA 9012        | 570159   | EPA 9012          | 570382           |
| 50260974013 | DUP-3       | EPA 9012        | 570159   | EPA 9012          | 570382           |

### REPORT OF LABORATORY ANALYSIS

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# Sample Conditions Upon Receipt Form (SCUR)

|   |   |                       |                           |
|---|---|-----------------------|---------------------------|
| Date/Time: <u>6-26-20</u>   | Evaluated by: <u>WDC</u>                                | <b>WO# : 50260974</b> |                           |
| Client: <u>ATC</u>  |   | PM: <u>BJH</u>        | Due Date: <u>07/07/20</u> |
| Project Manager: <u>BJH</u>   | Profile ID:   | CLIENT: <u>GR-ATC</u> |                           |
| Rush TAT Requested: <u>YES</u> <del>NO</del>  | Due Date:   |                       |                           |
| Lab Notified of Rush or Short Holds: <u>YES</u> <del>NO</del>   | Non Conformance Form Required: <u>YES</u> <del>NO</del> |                       |                           |
| Samples Received Via: <u>FedEx</u> <del>UPS</del> <del>Client</del> <del>Pace Courier</del> Other: _____  | Comments:   |                       |                           |
| Custody Seals Present and Intact:   | <u>YES</u>  | <del>NO</del>         | <del>NA</del>             |
| Received Sample Information Form(s): Drinking Waters Only   | <u>YES</u>  | <del>NO</del>         | <del>NA</del>             |
| USDA Regulated Soils: (AL, AR, CA, FL, GA, ID, LA, MS, NM, NY, NC, OK, OR, SC, TN, TX, WA or Puerto Rico)   | <u>YES</u>  | <del>NO</del>         | <del>N/A</del>            |
| Short Holds Present (< 72 Hours):   | <u>YES</u>  | <del>NO</del>         | <del>NA</del>             |
| Samples Received in Hold:   | <u>YES</u>  | <del>NO</del>         | <del>NA</del>             |
| Custody Signatures Present:   | <u>YES</u>  | <del>NO</del>         | <del>NA</del>             |
| Collector Signature Present:  | <u>YES</u>  | <del>NO</del>         | <del>NA</del>             |
| Packing Material Used:  | <u>YES</u>  | <del>NO</del>         | <del>NA</del>             |
| Samples Collected Today and On Ice:   | <u>YES</u>  | <del>NO</del>         | <del>N/A</del>            |
| IR Gun #: <u>280</u> <u>281</u>   | Digital Thermometer #: <u>282</u> <u>283</u>            |                       |                           |
| Ice Type: <u>WET Bagged / WET Loose</u> <del>BLUE</del> <del>NONE</del>   | 1. Cooler Temp Upon Receipt: <u>2.0/2.8</u> °C          |                       |                           |
| Ice Location: <u>TOP</u> <del>BOTTOM</del> <del>MIDDLE</del> <del>DISPERSED</del>   | Temp should be 0-6°C (Initial/Corrected)                |                       |                           |
| Temp Blank Received:  | <u>YES</u>  | <del>NO</del>         | <del>NA</del>             |
| Containers Intact:  | <u>YES</u>  | <del>NO</del>         | <del>NA</del>             |
| Correct Containers:   | <u>YES</u>  | <del>NO</del>         | <del>NA</del>             |
| Sufficient Volume:  | <u>YES</u>  | <del>NO</del>         | <del>NA</del>             |
| Sample pH Acceptable: All containers needing preservation are found to be in compliance with EPA recommendation. Exceptions are VOA, coliform, LLHg, O&G, or any container with a septum cap or preserved with HCl. | <u>YES</u>  | <del>NO</del>         | <del>N/A</del>            |
| Residual Chlorine Absent: (SVOC/Pest 625, PCB 608, Total/Amenable/Available Cyanide)  | <u>YES</u>  | <del>NO</del>         | <del>N/A</del>            |
| VOA Headspace Acceptable (<6mm):  | <u>YES</u>  | <del>NO</del>         | <del>N/A</del>            |
| Trip Blank Received: <u>HCl</u> <del>MeOH</del> <del>TSP</del> <del>OTHER</del>   | <u>YES</u>  | <del>NO</del>         | <del>NA</del>             |
| Comments:   | 2. Cooler Temp Upon Receipt: <u>1.8/2.6</u> °C          |                       |                           |
|   | 3. Cooler Temp Upon Receipt: <u>1.3/2.1</u> °C          |                       |                           |
|   | 4. Cooler Temp Upon Receipt: _____ °C                   |                       |                           |



## ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC  
2425 New Holland Pike  
Lancaster, PA 17601  
Tel: (717)656-2300

Laboratory Job ID: 410-5935-1

Client Project/Site: 8 Mile Ferndale - Detroit Axle

**For:**

Pace Analytical Services, LLC  
5560 Corporate Exchange Court  
Grand Rapids, Michigan 49512

Attn: Brian Hall



---

Authorized for release by:  
7/7/2020 4:13:01 PM

Marrison Williams, Project Manager  
(717)556-7246  
[marrissawilliams@eurofinsus.com](mailto:marrissawilliams@eurofinsus.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Marrison Williams  
Project Manager  
7/7/2020 4:13:01 PM



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# Definitions/Glossary

Client: Pace Analytical Services, LLC  
Project/Site: 8 Mile Ferndale - Detroit Axle

Job ID: 410-5935-1

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| 1C             | Result is from the primary column on a dual-column method.  |
| 2C             | Result is from the confirmation column on a dual-column method.   |
| CFL            | Contains Free Liquid  |
| CFU            | Colony Forming Unit   |
| CNF            | Contains No Free Liquid   |
| DER            | Duplicate Error Ratio (normalized absolute difference)  |
| Dil Fac        | Dilution Factor   |
| DL             | Detection Limit (DoD/DOE)   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)   |
| EDL            | Estimated Detection Limit (Dioxin)  |
| LOD            | Limit of Detection (DoD/DOE)  |
| LOQ            | Limit of Quantitation (DoD/DOE)   |
| MCL            | EPA recommended "Maximum Contaminant Level"   |
| MDA            | Minimum Detectable Activity (Radiochemistry)  |
| MDC            | Minimum Detectable Concentration (Radiochemistry)   |
| MDL            | Method Detection Limit  |
| ML             | Minimum Level (Dioxin)  |
| MPN            | Most Probable Number  |
| MQL            | Method Quantitation Limit   |
| NC             | Not Calculated  |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)  |
| NEG            | Negative / Absent   |
| POS            | Positive / Present  |
| PQL            | Practical Quantitation Limit  |
| PRES           | Presumptive   |
| QC             | Quality Control   |
| RER            | Relative Error Ratio (Radiochemistry)   |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)   |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)   |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)   |
| TNTC           | Too Numerous To Count   |

# Case Narrative

Client: Pace Analytical Services, LLC  
Project/Site: 8 Mile Ferndale - Detroit Axle

Job ID: 410-5935-1

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## Job ID: 410-5935-1

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Laboratory: Eurofins Lancaster Laboratories Env, LLC

### Narrative

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#### Job Narrative 410-5935-1

#### Receipt

The samples were received on 6/27/2020 10:28 AM; the samples arrived in good condition, properly preserved, and where required, on ice. The temperature of the cooler at receipt time was 0.4°C

#### GC/MS Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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# Detection Summary

Client: Pace Analytical Services, LLC  
Project/Site: 8 Mile Ferndale - Detroit Axle

Job ID: 410-5935-1

**Client Sample ID: MW-125**

**Lab Sample ID: 410-5935-1**

No Detections.

**Client Sample ID: MW-130**

**Lab Sample ID: 410-5935-2**

No Detections.

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This Detection Summary does not include radiochemical test results.



# Client Sample Results

Client: Pace Analytical Services, LLC  
 Project/Site: 8 Mile Ferndale - Detroit Axle

Job ID: 410-5935-1

## Client Sample ID: MW-125

Date Collected: 06/23/20 12:55

Date Received: 06/27/20 10:28

Lab Sample ID: 410-5935-1

Matrix: Water

### Method: 8270D Org lead - Organo Lead (GC/MS)

| Analyte         | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Tetraethyl lead | ND     |           | 4.8 | 0.87 | ug/L |   | 06/29/20 20:09 | 06/30/20 13:53 | 1       |

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 77        |           | 17 - 103 | 06/29/20 20:09 | 06/30/20 13:53 | 1       |
| Nitrobenzene-d5 (Surr)  | 89        |           | 49 - 117 | 06/29/20 20:09 | 06/30/20 13:53 | 1       |
| p-Terphenyl-d14 (Surr)  | 101       |           | 10 - 143 | 06/29/20 20:09 | 06/30/20 13:53 | 1       |

## Client Sample ID: MW-130

Date Collected: 06/23/20 15:10

Date Received: 06/27/20 10:28

Lab Sample ID: 410-5935-2

Matrix: Water

### Method: 8270D Org lead - Organo Lead (GC/MS)

| Analyte         | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Tetraethyl lead | ND     |           | 4.8 | 0.86 | ug/L |   | 06/29/20 20:09 | 06/30/20 14:16 | 1       |

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 81        |           | 17 - 103 | 06/29/20 20:09 | 06/30/20 14:16 | 1       |
| Nitrobenzene-d5 (Surr)  | 94        |           | 49 - 117 | 06/29/20 20:09 | 06/30/20 14:16 | 1       |
| p-Terphenyl-d14 (Surr)  | 101       |           | 10 - 143 | 06/29/20 20:09 | 06/30/20 14:16 | 1       |

# Surrogate Summary

Client: Pace Analytical Services, LLC  
Project/Site: 8 Mile Ferndale - Detroit Axle

Job ID: 410-5935-1

**Method: 8270D Org lead - Organo Lead (GC/MS)**

**Matrix: Water**

**Prep Type: Total/NA**

## Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID      | Client Sample ID       | FBP      | NBZ      | TPHd14   |
|--------------------|------------------------|----------|----------|----------|
|                    |                        | (17-103) | (49-117) | (10-143) |
| 410-5935-1         | MW-125                 | 77       | 89       | 101      |
| 410-5935-2         | MW-130                 | 81       | 94       | 101      |
| LCS 410-17808/2-A  | Lab Control Sample     | 75       | 86       | 98       |
| LCSD 410-17808/3-A | Lab Control Sample Dup | 70       | 81       | 92       |
| MB 410-17808/1-A   | Method Blank           | 67       | 78       | 88       |

### Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

# QC Sample Results

Client: Pace Analytical Services, LLC  
 Project/Site: 8 Mile Ferndale - Detroit Axle

Job ID: 410-5935-1

## Method: 8270D Org lead - Organo Lead (GC/MS)

**Lab Sample ID: MB 410-17808/1-A**  
**Matrix: Water**  
**Analysis Batch: 18099**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 17808**

| Analyte                 | MB Result | MB Qualifier | RL       | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|--------------|----------|------|------|---|----------------|----------------|---------|
| Tetraethyl lead         | ND        |              | 5.0      | 0.90 | ug/L |   | 06/29/20 20:09 | 06/30/20 11:46 | 1       |
| Surrogate               | %Recovery | Qualifier    | Limits   |      |      |   | Prepared       | Analyzed       | Dil Fac |
| 2-Fluorobiphenyl (Surr) | 67        |              | 17 - 103 |      |      |   | 06/29/20 20:09 | 06/30/20 11:46 | 1       |
| Nitrobenzene-d5 (Surr)  | 78        |              | 49 - 117 |      |      |   | 06/29/20 20:09 | 06/30/20 11:46 | 1       |
| p-Terphenyl-d14 (Surr)  | 88        |              | 10 - 143 |      |      |   | 06/29/20 20:09 | 06/30/20 11:46 | 1       |

**Lab Sample ID: LCS 410-17808/2-A**  
**Matrix: Water**  
**Analysis Batch: 18099**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 17808**

| Analyte                 | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------------|-------------|------------|---------------|------|---|------|--------------|
| Tetraethyl lead         | 100         | 56.4       |               | ug/L |   | 56   | 12 - 108     |
| Surrogate               | %Recovery   | Qualifier  | Limits        |      |   |      |              |
| 2-Fluorobiphenyl (Surr) | 75          |            | 17 - 103      |      |   |      |              |
| Nitrobenzene-d5 (Surr)  | 86          |            | 49 - 117      |      |   |      |              |
| p-Terphenyl-d14 (Surr)  | 98          |            | 10 - 143      |      |   |      |              |

**Lab Sample ID: LCSD 410-17808/3-A**  
**Matrix: Water**  
**Analysis Batch: 18099**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 17808**

| Analyte                 | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-------------------------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| Tetraethyl lead         | 100         | 49.8        |                | ug/L |   | 50   | 12 - 108     | 12  | 30        |
| Surrogate               | %Recovery   | Qualifier   | Limits         |      |   |      |              |     |           |
| 2-Fluorobiphenyl (Surr) | 70          |             | 17 - 103       |      |   |      |              |     |           |
| Nitrobenzene-d5 (Surr)  | 81          |             | 49 - 117       |      |   |      |              |     |           |
| p-Terphenyl-d14 (Surr)  | 92          |             | 10 - 143       |      |   |      |              |     |           |

# QC Association Summary

Client: Pace Analytical Services, LLC  
Project/Site: 8 Mile Ferndale - Detroit Axle

Job ID: 410-5935-1

## GC/MS Semi VOA

### Prep Batch: 17808

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 410-5935-1         | MW-125                 | Total/NA  | Water  | 3510C  |            |
| 410-5935-2         | MW-130                 | Total/NA  | Water  | 3510C  |            |
| MB 410-17808/1-A   | Method Blank           | Total/NA  | Water  | 3510C  |            |
| LCS 410-17808/2-A  | Lab Control Sample     | Total/NA  | Water  | 3510C  |            |
| LCSD 410-17808/3-A | Lab Control Sample Dup | Total/NA  | Water  | 3510C  |            |

### Analysis Batch: 18099

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method         | Prep Batch |
|--------------------|------------------------|-----------|--------|----------------|------------|
| 410-5935-1         | MW-125                 | Total/NA  | Water  | 8270D Org lead | 17808      |
| 410-5935-2         | MW-130                 | Total/NA  | Water  | 8270D Org lead | 17808      |
| MB 410-17808/1-A   | Method Blank           | Total/NA  | Water  | 8270D Org lead | 17808      |
| LCS 410-17808/2-A  | Lab Control Sample     | Total/NA  | Water  | 8270D Org lead | 17808      |
| LCSD 410-17808/3-A | Lab Control Sample Dup | Total/NA  | Water  | 8270D Org lead | 17808      |

# Lab Chronicle

Client: Pace Analytical Services, LLC  
Project/Site: 8 Mile Ferndale - Detroit Axle

Job ID: 410-5935-1

## Client Sample ID: MW-125

Date Collected: 06/23/20 12:55

Date Received: 06/27/20 10:28

Lab Sample ID: 410-5935-1

Matrix: Water

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab  |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|------|
| Total/NA  | Prep       | 3510C          |     |                 | 17808        | 06/29/20 20:09       | UKL2    | ELLE |
| Total/NA  | Analysis   | 8270D Org lead |     | 1               | 18099        | 06/30/20 13:53       | ULM3    | ELLE |

## Client Sample ID: MW-130

Date Collected: 06/23/20 15:10

Date Received: 06/27/20 10:28

Lab Sample ID: 410-5935-2

Matrix: Water

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab  |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|------|
| Total/NA  | Prep       | 3510C          |     |                 | 17808        | 06/29/20 20:09       | UKL2    | ELLE |
| Total/NA  | Analysis   | 8270D Org lead |     | 1               | 18099        | 06/30/20 14:16       | ULM3    | ELLE |

### Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

# Accreditation/Certification Summary

Client: Pace Analytical Services, LLC  
Project/Site: 8 Mile Ferndale - Detroit Axle

Job ID: 410-5935-1

## Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Michigan  | State   | 9930                  | 01-31-21        |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte         |
|-----------------|-------------|--------|-----------------|
| 8270D Org lead  | 3510C       | Water  | Tetraethyl lead |



# Method Summary

Client: Pace Analytical Services, LLC  
Project/Site: 8 Mile Ferndale - Detroit Axle

Job ID: 410-5935-1

| Method         | Method Description                           | Protocol | Laboratory |
|----------------|--|----------|------------|
| 8270D Org lead | Organo Lead (GC/MS)                          | SW846    | ELLE       |
| 3510C          | Liquid-Liquid Extraction (Separatory Funnel) | SW846    | ELLE       |

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300



# Sample Summary

Client: Pace Analytical Services, LLC  
Project/Site: 8 Mile Ferndale - Detroit Axle

Job ID: 410-5935-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 410-5935-1    | MW-125           | Water  | 06/23/20 12:55 | 06/27/20 10:28 |          |
| 410-5935-2    | MW-130           | Water  | 06/23/20 15:10 | 06/27/20 10:28 |          |

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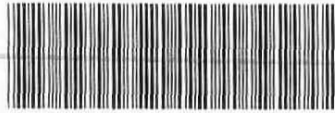
14

15



# Chain of Custody

PASI Indiana Laboratory



410-5935-01 Chain of Custody



Workorder: 50260974

Workorder Name: 8 Mile Ferndale - Detroit Axle

Results Requested By: 7/7/2020

| Report / Invoice To   |                     | Subcontract To                      |                    |                        |             | Requested Analysis                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---------------------|-------------------------------------|--------------------|------------------------|-------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Brian Hall<br>Pace Analytical Grand Rapids<br>5560 Corporate Exchange Ct. SE<br>Grand Rapids, MI 49512<br>Phone (616)975-4500<br>Email: brian.hall@pacelabs.com |                     | Eurofins Lancaster<br>P.O. 50260974 |                    |                        |             | tetraethyl Lead by 8270D - Eurofins<br><br>LAB USE ONLY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| State of Sample Origin: MI TDL  |                     | Preserved Containers                |                    |                        |             |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Item  | Sample ID           | Collect Date/Time                   | Lab ID             | Matrix                 | Unpreserved |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1   | MW-125              | 6/23/2020 12:55                     | 50260974004        | Water                  | 2           |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2   | MW-130              | 6/23/2020 15:10                     | 50260974006        | Water                  | 2           |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3   |                     |                                     |                    |                        |             |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4   |                     |                                     |                    |                        |             |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5   |                     |                                     |                    |                        |             |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Transfers   | Released By         | Date/Time                           | Received By        | Date/Time              | Comments    |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1   | <i>J. N. Lardin</i> | 6/26/20 1900                        |                    |                        |             |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2   |                     |                                     |                    |                        |             |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3   |                     |                                     | <i>[Signature]</i> | 6/25/20 1028           |             |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cooler Temperature on Receipt 0.4 °C  |                     | Custody Seal Y or N                 |                    | Received on Ice Y or N |             | Samples Intact Y or N                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

*[Signature]*  
Friday, June 26, 2020 2:27:42 PM



410-5935-02 Chain of Custody



# Purchase Order

ship to: Pace Analytical Services  
5560 Corporate Exchange Court  
Grand Rapids, Michigan 49512  
phone (616) 975-4500


to:

Eurofins Lancaster  
Attn: Marrison Williams  
2425 New Holland Pike  
Lancaster, PA 17601  
717.556.7246

**Purchase Date:** 26 Jun 2020  
**P.O. Number:** 50260974  
**P.O. Total:** \$505.00

| Quantity   | Size/No. | Description               | Amount          |
|--|----------|---------------------------|-----------------|
| 2  | 2-1L     | 8270D Tetraethyl Lead     | \$200.00        |
| 2  |          | 5 day TAT - 25% surcharge | \$50.00         |
| 2  |          | Sample Handling           | \$2.50          |
| <p>please email results: Brian.Hall@pacelabs.com</p> <p>Project# 50260974</p> <p><b>Rush 5 Day TAT</b></p> <p>Contact: Brian Hall, Pace Analytical<br/>phone: (616) 975-4544<br/>fax: (616) 942-7463</p> |          |                           |                 |
| <b>Subtotal</b>  |          |                           |                 |
| <b>Total</b>   |          |                           | <b>\$505.00</b> |

invoice to:  
indy.ap@pacelabs.com  
Pace Analytical Services  
Attn: Accounts Payable  
7726 Moller Road, Indianapolis, IN 46268

BY:   
Brian Hall

Original



## Login Sample Receipt Checklist

Client: Pace Analytical Services, LLC

Job Number: 410-5935-1

**Login Number: 5935**

**List Source: Eurofins Lancaster Laboratories Env**

**List Number: 1**

**Creator: Rivera-Santa, Julissa**

| Question  | Answer | Comment                            |
|---|--------|------------------------------------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter. | N/A    |                                    |
| The cooler's custody seal is intact.  | True   |                                    |
| The cooler or samples do not appear to have been compromised or tampered with.      | True   |                                    |
| Samples were received on ice.   | True   |                                    |
| Cooler Temperature is acceptable ( $\leq 6^{\circ}\text{C}$ , not frozen).          | True   |                                    |
| Cooler Temperature is recorded.   | True   |                                    |
| WV: Container Temperature is acceptable ( $\leq 6^{\circ}\text{C}$ , not frozen).   | N/A    |                                    |
| WV: Container Temperature is recorded.  | N/A    |                                    |
| COC is present.   | True   |                                    |
| COC is filled out in ink and legible.   | True   |                                    |
| COC is filled out with all pertinent information.                                   | True   |                                    |
| There are no discrepancies between the containers received and the COC.             | True   |                                    |
| Samples are received within Holding Time (excluding tests with immediate HTs)       | True   |                                    |
| Sample containers have legible labels.  | True   |                                    |
| Containers are not broken or leaking.   | True   |                                    |
| Sample collection date/times are provided.  | True   |                                    |
| Appropriate sample containers are used.   | True   |                                    |
| Sample bottles are completely filled.   | True   |                                    |
| There is sufficient vol. for all requested analyses.                                | True   |                                    |
| Multiphasic samples are not present.  | True   |                                    |
| Samples do not require splitting or compositing.                                    | N/A    |                                    |
| Is the Field Sampler's name present on COC?   | False  | Received project as a subcontract. |
| Sample Preservation Verified.   | N/A    |                                    |
| Residual Chlorine Checked.  | N/A    |                                    |
| Sample custody seals are intact.  | N/A    |                                    |

## ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC  
2425 New Holland Pike  
Lancaster, PA 17601  
Tel: (717)656-2300

Laboratory Job ID: 410-5935-1

Client Project/Site: 8 Mile Ferndale - Detroit Axle

**For:**

Pace Analytical Services, LLC  
5560 Corporate Exchange Court  
Grand Rapids, Michigan 49512

Attn: Brian Hall



---

Authorized for release by:  
7/7/2020 4:13:01 PM

Marrison Williams, Project Manager  
(717)556-7246  
[marrissawilliams@eurofinsus.com](mailto:marrissawilliams@eurofinsus.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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---

Marrison Williams  
Project Manager  
7/7/2020 4:13:01 PM



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# Definitions/Glossary

Client: Pace Analytical Services, LLC  
Project/Site: 8 Mile Ferndale - Detroit Axle

Job ID: 410-5935-1

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| 1C             | Result is from the primary column on a dual-column method.  |
| 2C             | Result is from the confirmation column on a dual-column method.   |
| CFL            | Contains Free Liquid  |
| CFU            | Colony Forming Unit   |
| CNF            | Contains No Free Liquid   |
| DER            | Duplicate Error Ratio (normalized absolute difference)  |
| Dil Fac        | Dilution Factor   |
| DL             | Detection Limit (DoD/DOE)   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)   |
| EDL            | Estimated Detection Limit (Dioxin)  |
| LOD            | Limit of Detection (DoD/DOE)  |
| LOQ            | Limit of Quantitation (DoD/DOE)   |
| MCL            | EPA recommended "Maximum Contaminant Level"   |
| MDA            | Minimum Detectable Activity (Radiochemistry)  |
| MDC            | Minimum Detectable Concentration (Radiochemistry)   |
| MDL            | Method Detection Limit  |
| ML             | Minimum Level (Dioxin)  |
| MPN            | Most Probable Number  |
| MQL            | Method Quantitation Limit   |
| NC             | Not Calculated  |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)  |
| NEG            | Negative / Absent   |
| POS            | Positive / Present  |
| PQL            | Practical Quantitation Limit  |
| PRES           | Presumptive   |
| QC             | Quality Control   |
| RER            | Relative Error Ratio (Radiochemistry)   |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)   |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)   |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)   |
| TNTC           | Too Numerous To Count   |

# Case Narrative

Client: Pace Analytical Services, LLC  
Project/Site: 8 Mile Ferndale - Detroit Axle

Job ID: 410-5935-1

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## Job ID: 410-5935-1

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Laboratory: Eurofins Lancaster Laboratories Env, LLC

### Narrative

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#### Job Narrative 410-5935-1

#### Receipt

The samples were received on 6/27/2020 10:28 AM; the samples arrived in good condition, properly preserved, and where required, on ice. The temperature of the cooler at receipt time was 0.4°C

#### GC/MS Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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# Detection Summary

Client: Pace Analytical Services, LLC  
Project/Site: 8 Mile Ferndale - Detroit Axle

Job ID: 410-5935-1

**Client Sample ID: MW-125**

**Lab Sample ID: 410-5935-1**

No Detections.

**Client Sample ID: MW-130**

**Lab Sample ID: 410-5935-2**

No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

# Client Sample Results

Client: Pace Analytical Services, LLC  
 Project/Site: 8 Mile Ferndale - Detroit Axle

Job ID: 410-5935-1

## Client Sample ID: MW-125

Date Collected: 06/23/20 12:55

Date Received: 06/27/20 10:28

Lab Sample ID: 410-5935-1

Matrix: Water

### Method: 8270D Org lead - Organo Lead (GC/MS)

| Analyte         | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Tetraethyl lead | ND     |           | 4.8 | 0.87 | ug/L |   | 06/29/20 20:09 | 06/30/20 13:53 | 1       |

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 77        |           | 17 - 103 | 06/29/20 20:09 | 06/30/20 13:53 | 1       |
| Nitrobenzene-d5 (Surr)  | 89        |           | 49 - 117 | 06/29/20 20:09 | 06/30/20 13:53 | 1       |
| p-Terphenyl-d14 (Surr)  | 101       |           | 10 - 143 | 06/29/20 20:09 | 06/30/20 13:53 | 1       |

## Client Sample ID: MW-130

Date Collected: 06/23/20 15:10

Date Received: 06/27/20 10:28

Lab Sample ID: 410-5935-2

Matrix: Water

### Method: 8270D Org lead - Organo Lead (GC/MS)

| Analyte         | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Tetraethyl lead | ND     |           | 4.8 | 0.86 | ug/L |   | 06/29/20 20:09 | 06/30/20 14:16 | 1       |

| Surrogate               | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 81        |           | 17 - 103 | 06/29/20 20:09 | 06/30/20 14:16 | 1       |
| Nitrobenzene-d5 (Surr)  | 94        |           | 49 - 117 | 06/29/20 20:09 | 06/30/20 14:16 | 1       |
| p-Terphenyl-d14 (Surr)  | 101       |           | 10 - 143 | 06/29/20 20:09 | 06/30/20 14:16 | 1       |

# Surrogate Summary

Client: Pace Analytical Services, LLC  
Project/Site: 8 Mile Ferndale - Detroit Axle

Job ID: 410-5935-1

**Method: 8270D Org lead - Organo Lead (GC/MS)**

**Matrix: Water**

**Prep Type: Total/NA**

## Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID      | Client Sample ID       | FBP      | NBZ      | TPHd14   |
|--------------------|------------------------|----------|----------|----------|
|                    |                        | (17-103) | (49-117) | (10-143) |
| 410-5935-1         | MW-125                 | 77       | 89       | 101      |
| 410-5935-2         | MW-130                 | 81       | 94       | 101      |
| LCS 410-17808/2-A  | Lab Control Sample     | 75       | 86       | 98       |
| LCSD 410-17808/3-A | Lab Control Sample Dup | 70       | 81       | 92       |
| MB 410-17808/1-A   | Method Blank           | 67       | 78       | 88       |

### Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

# QC Sample Results

Client: Pace Analytical Services, LLC  
 Project/Site: 8 Mile Ferndale - Detroit Axle

Job ID: 410-5935-1

## Method: 8270D Org lead - Organo Lead (GC/MS)

**Lab Sample ID: MB 410-17808/1-A**  
**Matrix: Water**  
**Analysis Batch: 18099**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 17808**

| Analyte         | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------|-----------|--------------|-----|------|------|---|----------------|----------------|---------|
| Tetraethyl lead | ND        |              | 5.0 | 0.90 | ug/L |   | 06/29/20 20:09 | 06/30/20 11:46 | 1       |

| Surrogate               | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 67           |              | 17 - 103 | 06/29/20 20:09 | 06/30/20 11:46 | 1       |
| Nitrobenzene-d5 (Surr)  | 78           |              | 49 - 117 | 06/29/20 20:09 | 06/30/20 11:46 | 1       |
| p-Terphenyl-d14 (Surr)  | 88           |              | 10 - 143 | 06/29/20 20:09 | 06/30/20 11:46 | 1       |

**Lab Sample ID: LCS 410-17808/2-A**  
**Matrix: Water**  
**Analysis Batch: 18099**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 17808**

| Analyte         | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------|-------------|------------|---------------|------|---|------|--------------|
| Tetraethyl lead | 100         | 56.4       |               | ug/L |   | 56   | 12 - 108     |

| Surrogate               | LCS %Recovery | LCS Qualifier | Limits   |
|-------------------------|---------------|---------------|----------|
| 2-Fluorobiphenyl (Surr) | 75            |               | 17 - 103 |
| Nitrobenzene-d5 (Surr)  | 86            |               | 49 - 117 |
| p-Terphenyl-d14 (Surr)  | 98            |               | 10 - 143 |

**Lab Sample ID: LCSD 410-17808/3-A**  
**Matrix: Water**  
**Analysis Batch: 18099**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 17808**

| Analyte         | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| Tetraethyl lead | 100         | 49.8        |                | ug/L |   | 50   | 12 - 108     | 12  | 30        |

| Surrogate               | LCSD %Recovery | LCSD Qualifier | Limits   |
|-------------------------|----------------|----------------|----------|
| 2-Fluorobiphenyl (Surr) | 70             |                | 17 - 103 |
| Nitrobenzene-d5 (Surr)  | 81             |                | 49 - 117 |
| p-Terphenyl-d14 (Surr)  | 92             |                | 10 - 143 |

# QC Association Summary

Client: Pace Analytical Services, LLC  
Project/Site: 8 Mile Ferndale - Detroit Axle

Job ID: 410-5935-1

## GC/MS Semi VOA

### Prep Batch: 17808

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 410-5935-1         | MW-125                 | Total/NA  | Water  | 3510C  |            |
| 410-5935-2         | MW-130                 | Total/NA  | Water  | 3510C  |            |
| MB 410-17808/1-A   | Method Blank           | Total/NA  | Water  | 3510C  |            |
| LCS 410-17808/2-A  | Lab Control Sample     | Total/NA  | Water  | 3510C  |            |
| LCSD 410-17808/3-A | Lab Control Sample Dup | Total/NA  | Water  | 3510C  |            |

### Analysis Batch: 18099

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method         | Prep Batch |
|--------------------|------------------------|-----------|--------|----------------|------------|
| 410-5935-1         | MW-125                 | Total/NA  | Water  | 8270D Org lead | 17808      |
| 410-5935-2         | MW-130                 | Total/NA  | Water  | 8270D Org lead | 17808      |
| MB 410-17808/1-A   | Method Blank           | Total/NA  | Water  | 8270D Org lead | 17808      |
| LCS 410-17808/2-A  | Lab Control Sample     | Total/NA  | Water  | 8270D Org lead | 17808      |
| LCSD 410-17808/3-A | Lab Control Sample Dup | Total/NA  | Water  | 8270D Org lead | 17808      |

# Lab Chronicle

Client: Pace Analytical Services, LLC  
Project/Site: 8 Mile Ferndale - Detroit Axle

Job ID: 410-5935-1

## Client Sample ID: MW-125

Date Collected: 06/23/20 12:55

Date Received: 06/27/20 10:28

Lab Sample ID: 410-5935-1

Matrix: Water

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab  |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|------|
| Total/NA  | Prep       | 3510C          |     |                 | 17808        | 06/29/20 20:09       | UKL2    | ELLE |
| Total/NA  | Analysis   | 8270D Org lead |     | 1               | 18099        | 06/30/20 13:53       | ULM3    | ELLE |

## Client Sample ID: MW-130

Date Collected: 06/23/20 15:10

Date Received: 06/27/20 10:28

Lab Sample ID: 410-5935-2

Matrix: Water

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab  |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|------|
| Total/NA  | Prep       | 3510C          |     |                 | 17808        | 06/29/20 20:09       | UKL2    | ELLE |
| Total/NA  | Analysis   | 8270D Org lead |     | 1               | 18099        | 06/30/20 14:16       | ULM3    | ELLE |

### Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

# Accreditation/Certification Summary

Client: Pace Analytical Services, LLC  
Project/Site: 8 Mile Ferndale - Detroit Axle

Job ID: 410-5935-1

## Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Michigan  | State   | 9930                  | 01-31-21        |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte         |
|-----------------|-------------|--------|-----------------|
| 8270D Org lead  | 3510C       | Water  | Tetraethyl lead |



# Method Summary

Client: Pace Analytical Services, LLC  
Project/Site: 8 Mile Ferndale - Detroit Axle

Job ID: 410-5935-1

| Method         | Method Description                           | Protocol | Laboratory |
|----------------|--|----------|------------|
| 8270D Org lead | Organo Lead (GC/MS)                          | SW846    | ELLE       |
| 3510C          | Liquid-Liquid Extraction (Separatory Funnel) | SW846    | ELLE       |

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300





# Sample Summary

Client: Pace Analytical Services, LLC  
Project/Site: 8 Mile Ferndale - Detroit Axle

Job ID: 410-5935-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 410-5935-1    | MW-125           | Water  | 06/23/20 12:55 | 06/27/20 10:28 |          |
| 410-5935-2    | MW-130           | Water  | 06/23/20 15:10 | 06/27/20 10:28 |          |

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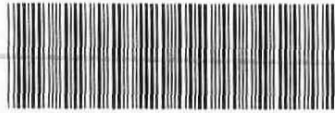
13

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# Chain of Custody

PASI Indiana Laboratory



410-5935-01 Chain of Custody



Workorder: 50260974

Workorder Name: 8 Mile Ferndale - Detroit Axle

Results Requested By: 7/7/2020

| Report / Invoice To   |                     | Subcontract To                      |                    |                        |             | Requested Analysis                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---------------------|-------------------------------------|--------------------|------------------------|-------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Brian Hall<br>Pace Analytical Grand Rapids<br>5560 Corporate Exchange Ct. SE<br>Grand Rapids, MI 49512<br>Phone (616)975-4500<br>Email: brian.hall@pacelabs.com |                     | Eurofins Lancaster<br>P.O. 50260974 |                    |                        |             | tetraethyl Lead by 8270D - Eurofins<br><br>LAB USE ONLY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| State of Sample Origin: MI TDL  |                     | Preserved Containers                |                    |                        |             |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Item  | Sample ID           | Collect Date/Time                   | Lab ID             | Matrix                 | Unpreserved |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1   | MW-125              | 6/23/2020 12:55                     | 50260974004        | Water                  | 2           |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2   | MW-130              | 6/23/2020 15:10                     | 50260974006        | Water                  | 2           |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3   |                     |                                     |                    |                        |             |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4   |                     |                                     |                    |                        |             |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5   |                     |                                     |                    |                        |             |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Transfers   | Released By         | Date/Time                           | Received By        | Date/Time              | Comments    |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1   | <i>J. N. Lardin</i> | 6/26/20 1900                        |                    |                        |             |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2   |                     |                                     |                    |                        |             |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3   |                     |                                     | <i>[Signature]</i> | 6/25/20 1028           |             |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cooler Temperature on Receipt 0.4 °C  |                     | Custody Seal Y or N                 |                    | Received on Ice Y or N |             | Samples Intact Y or N                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

*[Signature]*  
Friday, June 26, 2020 2:27:42 PM

*[Signature]* 7/7/2020



410-5935-02 Chain of Custody



# Purchase Order

ship to: Pace Analytical Services  
5560 Corporate Exchange Court  
Grand Rapids, Michigan 49512  
phone (616) 975-4500


to:

Eurofins Lancaster  
Attn: Marrison Williams  
2425 New Holland Pike  
Lancaster, PA 17601  
717.556.7246

**Purchase Date:** 26 Jun 2020  
**P.O. Number:** 50260974  
**P.O. Total:** \$505.00

| Quantity   | Size/No. | Description               | Amount          |
|--|----------|---------------------------|-----------------|
| 2  | 2-1L     | 8270D Tetraethyl Lead     | \$200.00        |
| 2  |          | 5 day TAT - 25% surcharge | \$50.00         |
| 2  |          | Sample Handling           | \$2.50          |
| <p>please email results: Brian.Hall@pacelabs.com</p> <p>Project# 50260974</p> <p><b>Rush 5 Day TAT</b></p> <p>Contact: Brian Hall, Pace Analytical<br/>phone: (616) 975-4544<br/>fax: (616) 942-7463</p> |          |                           |                 |
| <b>Subtotal</b>  |          |                           |                 |
| <b>Total</b>   |          |                           | <b>\$505.00</b> |

invoice to:  
indy.ap@pacelabs.com  
Pace Analytical Services  
Attn: Accounts Payable  
7726 Moller Road, Indianapolis, IN 46268

BY:   
Brian Hall

Original

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

## Login Sample Receipt Checklist

Client: Pace Analytical Services, LLC

Job Number: 410-5935-1

**Login Number: 5935**

**List Source: Eurofins Lancaster Laboratories Env**

**List Number: 1**

**Creator: Rivera-Santa, Julissa**

| Question  | Answer | Comment                            |
|---|--------|------------------------------------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter. | N/A    |                                    |
| The cooler's custody seal is intact.  | True   |                                    |
| The cooler or samples do not appear to have been compromised or tampered with.      | True   |                                    |
| Samples were received on ice.   | True   |                                    |
| Cooler Temperature is acceptable ( $\leq 6^{\circ}\text{C}$ , not frozen).          | True   |                                    |
| Cooler Temperature is recorded.   | True   |                                    |
| WV: Container Temperature is acceptable ( $\leq 6^{\circ}\text{C}$ , not frozen).   | N/A    |                                    |
| WV: Container Temperature is recorded.  | N/A    |                                    |
| COC is present.   | True   |                                    |
| COC is filled out in ink and legible.   | True   |                                    |
| COC is filled out with all pertinent information.                                   | True   |                                    |
| There are no discrepancies between the containers received and the COC.             | True   |                                    |
| Samples are received within Holding Time (excluding tests with immediate HTs)       | True   |                                    |
| Sample containers have legible labels.  | True   |                                    |
| Containers are not broken or leaking.   | True   |                                    |
| Sample collection date/times are provided.  | True   |                                    |
| Appropriate sample containers are used.   | True   |                                    |
| Sample bottles are completely filled.   | True   |                                    |
| There is sufficient vol. for all requested analyses.                                | True   |                                    |
| Multiphasic samples are not present.  | True   |                                    |
| Samples do not require splitting or compositing.                                    | N/A    |                                    |
| Is the Field Sampler's name present on COC?   | False  | Received project as a subcontract. |
| Sample Preservation Verified.   | N/A    |                                    |
| Residual Chlorine Checked.  | N/A    |                                    |
| Sample custody seals are intact.  | N/A    |                                    |

**Report Prepared for:**

Joshua Schuyler  
ATC-MI  
2650 Horizon Drive SE  
Grand Rapids MI 49546

**REPORT OF  
LABORATORY  
ANALYSIS  
FOR PFAAs**

**Report Prepared Date:**

May 6, 2020

**Report Information:**

**Pace Project #: 10515186**  
**Sample Receipt Date: 04/17/2020**  
**Client Project #: NPDAX19001 Detroit Axel**  
**Client Sub PO #: N/A**  
**State Cert #: 2926.01**

**Invoicing & Reporting Options:**

The report provided has been invoiced as a Level 2 PFAA Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Kirsten Hogberg, your Pace Project Manager.

**This report has been reviewed by:**



May 06, 2020

Kirsten Hogberg, Project Manager  
(612) 607-6407  
(612) 607-6444 (fax)  
kirsten.hogberg@pacelabs.com



**Report of Laboratory Analysis**

This report should not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

The results relate only to the samples included in this report.

## **DISCUSSION**

This report presents the results from the analyses performed on nineteen samples, one matrix spike, and a duplicate submitted by a representative of ATC-MI. The samples were analyzed for twenty-four perfluorinated compounds using an isotope dilution based on DoD QSM 5.1.1. Reporting limits were set to reporting limits.

A laboratory method blank was prepared and analyzed with each sample batch as part of our routine quality control procedures. The results show the blanks were free of the target perfluorinated compounds at the reporting limits. This indicates that the sample processing procedures did not significantly contribute to the analyte content determined for the sample material. 6:2 FTS was detected in the field blank "Field Blank B" and "Field Blank C".

Laboratory spike samples were also prepared with the sample batch using clean reference matrix that had been fortified with native standards. The recovery results were within the method limits. The RPDs (relative percent differences) between one designated spike and its duplicate were within the method limits. These spikes indicate that extraction performed as expected.

Both of the injection internal standards (13C4\_PFOA and 13C4\_PFOS) pass for each analysis in the batch verifying that the instrument detector is working as expected. Diminished and/or elevated internal surrogate standard (IS) recoveries (outside the suggested limits) were present in the sample material, however, the use of the isotope dilution method generally precludes any adverse impact on those individual native compounds that have a directly associated standard.

On the matrix spike 6:2 FTS is marked "R" as the recovery is elevated from the expected levels. This deviation may be due to the presence of the affected analyte in the sample material and/or sample inhomogeneity

It should be noted that Pace Analytical has not yet completed the certification process for all analytes in this method. Therefore, the results have been marked "N2" as qualified.

## Minnesota Laboratory Certifications

| <b>Authority</b> | <b>Certificate #</b> | <b>Authority</b> | <b>Certificate #</b> |
|------------------|----------------------|------------------|----------------------|
| A2LA             | 2926.01              | Minnesota - Pet  | 1240                 |
| Alabama          | 40770                | Mississippi      | MN00064              |
| Alaska - DW      | MN00064              | Missouri - DW    | 10100                |
| Alaska - UST     | 17-009               | Montana          | CERT0092             |
| Arizona          | AZ0014               | Nebraska         | NE-OS-18-06          |
| Arkansas - DW    | MN00064              | Nevada           | MN00064              |
| Arkansas - WW    | 88-0680              | New Hampshire    | 2081                 |
| CNMI Saipan      | MP0003               | New Jersey (NE)  | MN002                |
| California       | 2929                 | New York         | 11647                |
| Colorado         | MN00064              | North Carolina - | 27700                |
| Connecticut      | PH-0256              | North Carolina - | 530                  |
| EPA Region 8+    | via MN 027-053       | North Dakota     | R-036                |
| Florida (NELAP)  | E87605               | Ohio - DW        | 41244                |
| Georgia          | 959                  | Ohio - VAP       | CL101                |
| Guam             | 20-00.R              | Oklahoma         | 9507                 |
| Hawaii           | MN00064              | Oregon - Primar  | MN300001             |
| Idaho            | MN00064              | Oregon - Secon   | MN200001             |
| Illinois         | 200011               | Pennsylvania     | 68-00563             |
| Indiana          | C-MN-01              | Puerto Rico      | MN00064              |
| Iowa             | 368                  | South Carolina   | 74003                |
| Kansas           | E-10167              | Tennessee        | TN02818              |
| Kentucky - DW    | 90062                | Texas            | T104704192           |
| Kentucky - WW    | 90062                | Utah (NELAP)     | MN00064              |
| Louisiana - DE   | 84596                | Vermont          | VT-027053137         |
| Louisiana - DW   | MN00064              | Virginia         | 460163               |
| Maine            | MN00064              | Washington       | C486                 |
| Maryland         | 322                  | West Virginia -  | 382                  |
| Massachusetts    | M-MN064              | West Virginia -  | 9952C                |
| Michigan         | 9909                 | Wisconsin        | 999407970            |
| Minnesota        | 027-053-137          | Wyoming - UST    | 2926.01              |
| Minnesota - De   | via MN 027-053       |                  |                      |

## REPORT OF LABORATORY ANALYSIS

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# **Appendix A**

## Sample Management







**Sample Condition Upon Receipt** Client Name: ATC GROUP Services Project #: **WO# : 10515186**  
 Courier:  Fed Ex  UPS  USPS  Client  
 Pace  Speedee  Commercial See Exceptions  
 Tracking Number: 1320 7521 3311  Seals Intact?  Yes  No Biological Tissue Frozen?  Yes  No  N/A  
 Custody Seal on Cooler/Box Present?  Yes  No Packing Material:  Bubble Wrap  Bubble Bags  None  Other: PB Temp Blank?  Yes  No  
 Thermometer:  T1(0461)  T2(1336)  T3(0459)  T4(0254)  T5(0489) Type of Ice:  Wet  Blue  None  Dry  Melted

Did Samples Originate in West Virginia?  Yes  No Were All Container Temps Taken?  Yes  No  N/A  
 Temp should be above freezing to 6°C Cooler Temp Read w/temp blank: 2.5, 3.1 °C Average Corrected Temp (no temp blank only):  See Exceptions  
 Correction Factor: None Cooler Temp Corrected w/temp blank: 2.5, 3.1 °C  1 Container

USDA Regulated Soil: (  N/A, water sample/Other: \_\_\_\_\_ ) Date/Initials of Person Examining Contents: GNZ 4/17/20  
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?  Yes  No Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No  
 If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

|   |  | COMMENTS:  |
|---|--|--|
| Chain of Custody Present and Filled Out?  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 1.   |
| Chain of Custody Relinquished?  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 2.   |
| Sampler Name and/or Signature on COC?   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3.   |
| Samples Arrived within Hold Time?   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 4.   |
| Short Hold Time Analysis (<72 hr)?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              | 5. <input type="checkbox"/> Fecal Coliform <input type="checkbox"/> HPC <input type="checkbox"/> Total Coliform/E coli <input type="checkbox"/> BOD/cBOD <input type="checkbox"/> Hex Chrome<br><input type="checkbox"/> Turbidity <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Orthophos <input type="checkbox"/> Other |
| Rush Turn Around Time Requested?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              | 6.   |
| Sufficient Volume?  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 7.   |
| Correct Containers Used?  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 8.   |
| -Pace Containers Used?  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              |  |
| Containers Intact?  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 9.   |
| Field Filtered Volume Received for Dissolved Tests?   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 10. Is sediment visible in the dissolved container? <input type="checkbox"/> Yes <input type="checkbox"/> No   |
| Is sufficient information available to reconcile the samples to the COC?  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 11. If no, write ID/ Date/Time on Container Below: <input type="checkbox"/> See Exception  |
| Matrix: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other _____                                       |  |  |
| All containers needing acid/base preservation have been checked?  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 12. Sample #   |
| All containers needing preservation are found to be in compliance with EPA recommendation (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide) | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | <input type="checkbox"/> NaOH <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> Zinc Acetate  |
| Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Positive for Res. <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Exception<br>Chlorine? <input type="checkbox"/> No <b>pH Paper Lot#</b> <input type="checkbox"/>   |
|   |  | Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip  |
| Extra labels present on soil VOA or WIDRO containers?   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 13. <input type="checkbox"/> See Exception   |
| Headspace in VOA Vials (greater than 6mm)?  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |  |
| Trip Blank Present?   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14.  |
| Trip Blank Custody Seals Present?   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Pace Trip Blank Lot # (if purchased): _____  |

**CLIENT NOTIFICATION/RESOLUTION** Field Data Required?  Yes  No  
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/Resolution: \_\_\_\_\_

**Project Manager Review:** *Ashley Williams* Date: 04/17/2020  
 Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: GNZ (2)



## Reporting Flags

- A = Reporting Limit based on signal to noise
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Interference present
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- \* = See Discussion

### REPORT OF LABORATORY ANALYSIS

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## **Appendix B**

### Sample Analysis Summary



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-101          | Date Extracted         | 04/21/2020   |
| Lab Sample ID      | 10515186001     | Total Amount Extracted | 238 mL       |
| Filename           | Q200422A_007    | ICAL ID                | 200421B01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200422A_003 |
| Collected          | 04/14/2020      | Ending CCal            | Q200422A_014 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200422A_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed         | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|------------------|-------------|-------|
| PFBA      | 3.5                  | 2.1        | 0.31       | 1        | 04/22/2020 18:27 | 375-22-4    | N2    |
| PFPeA     | ND                   | 2.1        | 0.26       | 1        | 04/22/2020 18:27 | 2706-90-3   | N2    |
| PFHxA     | ND                   | 2.1        | 0.37       | 1        | 04/22/2020 18:27 | 307-24-4    | N2    |
| PFHpA     | ND                   | 2.1        | 0.44       | 1        | 04/22/2020 18:27 | 375-85-9    | N2    |
| PFOA      | ND                   | 2.1        | 0.43       | 1        | 04/22/2020 18:27 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.1        | 0.58       | 1        | 04/22/2020 18:27 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.1        | 0.67       | 1        | 04/22/2020 18:27 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.1        | 0.55       | 1        | 04/22/2020 18:27 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.1        | 0.40       | 1        | 04/22/2020 18:27 | 307-55-1    | N2    |
| PFTrDA    | ND                   | 2.1        | 0.44       | 1        | 04/22/2020 18:27 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.1        | 0.40       | 1        | 04/22/2020 18:27 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.1        | 0.24       | 1        | 04/22/2020 18:27 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.1        | 0.92       | 1        | 04/22/2020 18:27 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.1        | 0.44       | 1        | 04/22/2020 18:27 | 2355-31-9   | N2    |
| PFBS      | 5.2                  | 1.9        | 0.20       | 1        | 04/22/2020 18:27 | 375-73-5    | N2    |
| PFPeS     | ND                   | 2.0        | 0.37       | 1        | 04/22/2020 18:27 | 2706-91-4   | N2    |
| PFHxS     | 4.7                  | 1.9        | 0.38       | 1        | 04/22/2020 18:27 | 355-46-4    | N2    |
| PFHpS     | ND                   | 2.0        | 0.46       | 1        | 04/22/2020 18:27 | 375-92-8    | N2    |
| PFOS      | ND                   | 1.9        | 0.39       | 1        | 04/22/2020 18:27 | 1763-23-1   | N2    |
| PFNS      | ND                   | 2.0        | 0.46       | 1        | 04/22/2020 18:27 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.0        | 0.33       | 1        | 04/22/2020 18:27 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 2.0        | 0.58       | 1        | 04/22/2020 18:27 | 757124-72-4 | N2    |
| 6:2FTS    | ND                   | 2.0        | 0.93       | 1        | 04/22/2020 18:27 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 2.0        | 0.77       | 1        | 04/22/2020 18:27 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-101          | Date Extracted         | 04/21/2020   |
| Lab Sample ID      | 10515186001     | Total Amount Extracted | 238 mL       |
| Filename           | Q200422A_007    | ICAL ID                | 200421B01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200422A_003 |
| Collected          | 04/14/2020      | Ending CCal            | Q200422A_014 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200422A_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 21             | 19             | 89        | 50-150             | Pass      | 565281 |
| 13C5_PFPeA                     | 21             | 19             | 90        | 50-150             | Pass      | 421593 |
| 13C5_PFHxA                     | 21             | 20             | 95        | 50-150             | Pass      | 474029 |
| 13C4_PFHpA                     | 21             | 19             | 91        | 50-150             | Pass      | 456466 |
| 13C8_PFOA                      | 21             | 19             | 92        | 50-150             | Pass      | 517270 |
| 13C9_PFNA                      | 21             | 20             | 97        | 50-150             | Pass      | 585509 |
| 13C6_PFDA                      | 21             | 20             | 96        | 50-150             | Pass      | 466469 |
| 13C7_PFUdA                     | 21             | 20             | 97        | 50-150             | Pass      | 441694 |
| 13C2_PFDoA                     | 21             | 21             | 99        | 50-150             | Pass      | 492149 |
| 13C2_PFTeDA                    | 21             | 20             | 94        | 50-150             | Pass      | 348731 |
| d5-EtFOSAA                     | 21             | 17             | 83        | 50-150             | Pass      | 90835  |
| d3-MeFOSAA                     | 21             | 19             | 90        | 50-150             | Pass      | 80681  |
| 13C3_PFBS                      | 21             | 19             | 93        | 50-150             | Pass      | 326560 |
| 13C3_PFHxS                     | 21             | 19             | 92        | 50-150             | Pass      | 326485 |
| 13C8_PFOS                      | 21             | 19             | 91        | 50-150             | Pass      | 378874 |
| 13C8_PFOA                      | 21             | 19             | 91        | 50-150             | Pass      | 542146 |
| 13C2_4:2FTS                    | 21             | 27             | 127       | 50-150             | Pass      | 141705 |
| 13C2_6:2FTS                    | 21             | 21             | 99        | 50-150             | Pass      | 123094 |
| 13C2_8:2FTS                    | 21             | 21             | 98        | 50-150             | Pass      | 134349 |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 610055 | 361284 - 1083852 | 437712 - 1313135 | Pass      |
| 13C4_PFOS   | 394023 | 241967 - 725900  | 281179 - 843536  | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.





**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-102          | Date Extracted         | 04/21/2020   |
| Lab Sample ID      | 10515186002     | Total Amount Extracted | 243 mL       |
| Filename           | Q200422A_008    | ICAL ID                | 200421B01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200422A_003 |
| Collected          | 04/14/2020      | Ending CCal            | Q200422A_014 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200422A_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed         | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|------------------|-------------|-------|
| PFBA      | 12                   | 2.1        | 0.30       | 1        | 04/22/2020 18:54 | 375-22-4    | N2    |
| PFPeA     | 26                   | 2.1        | 0.26       | 1        | 04/22/2020 18:54 | 2706-90-3   | N2    |
| PFHxA     | 24                   | 2.1        | 0.36       | 1        | 04/22/2020 18:54 | 307-24-4    | N2    |
| PFHpA     | 6.6                  | 2.1        | 0.44       | 1        | 04/22/2020 18:54 | 375-85-9    | N2    |
| PFOA      | 7.8                  | 2.1        | 0.42       | 1        | 04/22/2020 18:54 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.1        | 0.57       | 1        | 04/22/2020 18:54 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.1        | 0.66       | 1        | 04/22/2020 18:54 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.1        | 0.54       | 1        | 04/22/2020 18:54 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.1        | 0.40       | 1        | 04/22/2020 18:54 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 2.1        | 0.44       | 1        | 04/22/2020 18:54 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.1        | 0.40       | 1        | 04/22/2020 18:54 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.1        | 0.23       | 1        | 04/22/2020 18:54 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.1        | 0.90       | 1        | 04/22/2020 18:54 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.1        | 0.43       | 1        | 04/22/2020 18:54 | 2355-31-9   | N2    |
| PFBS      | 5.2                  | 1.8        | 0.20       | 1        | 04/22/2020 18:54 | 375-73-5    | N2    |
| PFPeS     | 2.1                  | 1.9        | 0.36       | 1        | 04/22/2020 18:54 | 2706-91-4   | N2    |
| PFHxS     | 5.1                  | 1.9        | 0.37       | 1        | 04/22/2020 18:54 | 355-46-4    | N2    |
| PFHpS     | ND                   | 2.0        | 0.45       | 1        | 04/22/2020 18:54 | 375-92-8    | N2    |
| PFOS      | 2.6                  | 1.9        | 0.39       | 1        | 04/22/2020 18:54 | 1763-23-1   | N2    |
| PFNS      | ND                   | 2.0        | 0.45       | 1        | 04/22/2020 18:54 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.0        | 0.32       | 1        | 04/22/2020 18:54 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 1.9        | 0.57       | 1        | 04/22/2020 18:54 | 757124-72-4 | N2    |
| 6:2FTS    | ND                   | 2.0        | 0.92       | 1        | 04/22/2020 18:54 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 2.0        | 0.75       | 1        | 04/22/2020 18:54 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-102          | Date Extracted         | 04/21/2020   |
| Lab Sample ID      | 10515186002     | Total Amount Extracted | 243 mL       |
| Filename           | Q200422A_008    | ICAL ID                | 200421B01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200422A_003 |
| Collected          | 04/14/2020      | Ending CCal            | Q200422A_014 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200422A_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 21             | 18             | 87        | 50-150             | Pass      | 593075 |
| 13C5_PFPeA                     | 21             | 18             | 87        | 50-150             | Pass      | 431434 |
| 13C5_PFHxA                     | 21             | 19             | 90        | 50-150             | Pass      | 478322 |
| 13C4_PFHpA                     | 21             | 19             | 94        | 50-150             | Pass      | 498727 |
| 13C8_PFOA                      | 21             | 19             | 92        | 50-150             | Pass      | 551895 |
| 13C9_PFNA                      | 21             | 19             | 94        | 50-150             | Pass      | 614902 |
| 13C6_PFDA                      | 21             | 19             | 92        | 50-150             | Pass      | 481879 |
| 13C7_PFUdA                     | 21             | 19             | 93        | 50-150             | Pass      | 458342 |
| 13C2_PFDoA                     | 21             | 18             | 86        | 50-150             | Pass      | 460912 |
| 13C2_PFTeDA                    | 21             | 17             | 85        | 50-150             | Pass      | 340938 |
| d5-EtFOSAA                     | 21             | 17             | 82        | 50-150             | Pass      | 97492  |
| d3-MeFOSAA                     | 21             | 18             | 86        | 50-150             | Pass      | 83886  |
| 13C3_PFBS                      | 21             | 19             | 90        | 50-150             | Pass      | 335983 |
| 13C3_PFHxS                     | 21             | 18             | 89        | 50-150             | Pass      | 343475 |
| 13C8_PFOS                      | 21             | 18             | 89        | 50-150             | Pass      | 404565 |
| 13C8_PFOA                      | 21             | 15             | 71        | 50-150             | Pass      | 463033 |
| 13C2_4:2FTS                    | 21             | 26             | 124       | 50-150             | Pass      | 147393 |
| 13C2_6:2FTS                    | 21             | 20             | 99        | 50-150             | Pass      | 130694 |
| 13C2_8:2FTS                    | 21             | 21             | 100       | 50-150             | Pass      | 148170 |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 647874 | 361284 - 1083852 | 437712 - 1313135 | Pass      |
| 13C4_PFOS   | 426533 | 241967 - 725900  | 281179 - 843536  | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-103          | Date Extracted         | 04/21/2020   |
| Lab Sample ID      | 10515186003     | Total Amount Extracted | 237 mL       |
| Filename           | Q200422A_009    | ICAL ID                | 200421B01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200422A_003 |
| Collected          | 04/14/2020      | Ending CCal            | Q200422A_014 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200422A_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed         | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|------------------|-------------|-------|
| PFBA      | 4.6                  | 2.1        | 0.31       | 1        | 04/22/2020 19:20 | 375-22-4    | N2    |
| PFPeA     | 4.7                  | 2.1        | 0.26       | 1        | 04/22/2020 19:20 | 2706-90-3   | N2    |
| PFHxA     | 5.6                  | 2.1        | 0.37       | 1        | 04/22/2020 19:20 | 307-24-4    | N2    |
| PFHpA     | 3.2                  | 2.1        | 0.45       | 1        | 04/22/2020 19:20 | 375-85-9    | N2    |
| PFOA      | 7.8                  | 2.1        | 0.43       | 1        | 04/22/2020 19:20 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.1        | 0.59       | 1        | 04/22/2020 19:20 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.1        | 0.68       | 1        | 04/22/2020 19:20 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.1        | 0.55       | 1        | 04/22/2020 19:20 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.1        | 0.41       | 1        | 04/22/2020 19:20 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 2.1        | 0.45       | 1        | 04/22/2020 19:20 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.1        | 0.41       | 1        | 04/22/2020 19:20 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.1        | 0.24       | 1        | 04/22/2020 19:20 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.1        | 0.93       | 1        | 04/22/2020 19:20 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.1        | 0.45       | 1        | 04/22/2020 19:20 | 2355-31-9   | N2    |
| PFBS      | 3.9                  | 1.9        | 0.20       | 1        | 04/22/2020 19:20 | 375-73-5    | N2    |
| PFPeS     | ND                   | 2.0        | 0.37       | 1        | 04/22/2020 19:20 | 2706-91-4   | N2    |
| PFHxS     | 7.0                  | 1.9        | 0.38       | 1        | 04/22/2020 19:20 | 355-46-4    | N2    |
| PFHpS     | ND                   | 2.0        | 0.46       | 1        | 04/22/2020 19:20 | 375-92-8    | N2    |
| PFOS      | 13                   | 1.9        | 0.39       | 1        | 04/22/2020 19:20 | 1763-23-1   | N2    |
| PFNS      | ND                   | 2.0        | 0.46       | 1        | 04/22/2020 19:20 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.0        | 0.33       | 1        | 04/22/2020 19:20 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 2.0        | 0.59       | 1        | 04/22/2020 19:20 | 757124-72-4 | N2    |
| 6:2FTS    | 3.4                  | 2.0        | 0.94       | 1        | 04/22/2020 19:20 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 2.0        | 0.77       | 1        | 04/22/2020 19:20 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-103          | Date Extracted         | 04/21/2020   |
| Lab Sample ID      | 10515186003     | Total Amount Extracted | 237 mL       |
| Filename           | Q200422A_009    | ICAL ID                | 200421B01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200422A_003 |
| Collected          | 04/14/2020      | Ending CCal            | Q200422A_014 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200422A_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 21             | 19             | 91        | 50-150             | Pass      | 589406 |
| 13C5_PFPeA                     | 21             | 19             | 89        | 50-150             | Pass      | 423717 |
| 13C5_PFHxA                     | 21             | 19             | 90        | 50-150             | Pass      | 459200 |
| 13C4_PFHpA                     | 21             | 20             | 93        | 50-150             | Pass      | 473377 |
| 13C8_PFOA                      | 21             | 19             | 92        | 50-150             | Pass      | 529766 |
| 13C9_PFNA                      | 21             | 20             | 93        | 50-150             | Pass      | 599851 |
| 13C6_PFDA                      | 21             | 19             | 88        | 50-150             | Pass      | 456262 |
| 13C7_PFUdA                     | 21             | 20             | 93        | 50-150             | Pass      | 449601 |
| 13C2_PFDoA                     | 21             | 19             | 92        | 50-150             | Pass      | 485394 |
| 13C2_PFTeDA                    | 21             | 18             | 86        | 50-150             | Pass      | 340486 |
| d5-EtFOSAA                     | 21             | 18             | 84        | 50-150             | Pass      | 98096  |
| d3-MeFOSAA                     | 21             | 19             | 92        | 50-150             | Pass      | 87920  |
| 13C3_PFBS                      | 21             | 20             | 94        | 50-150             | Pass      | 336961 |
| 13C3_PFHxS                     | 21             | 19             | 89        | 50-150             | Pass      | 334797 |
| 13C8_PFOS                      | 21             | 19             | 89        | 50-150             | Pass      | 394727 |
| 13C8_PFOA                      | 21             | 18             | 87        | 50-150             | Pass      | 552229 |
| 13C2_4:2FTS                    | 21             | 31             | 149       | 50-150             | Pass      | 169531 |
| 13C2_6:2FTS                    | 21             | 24             | 114       | 50-150             | Pass      | 144085 |
| 13C2_8:2FTS                    | 21             | 22             | 106       | 50-150             | Pass      | 154824 |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 619943 | 361284 - 1083852 | 437712 - 1313135 | Pass      |
| 13C4_PFOS   | 418647 | 241967 - 725900  | 281179 - 843536  | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-104          | Date Extracted         | 04/21/2020   |
| Lab Sample ID      | 10515186004     | Total Amount Extracted | 244 mL       |
| Filename           | Q200422A_010    | ICAL ID                | 200421B01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200422A_003 |
| Collected          | 04/14/2020      | Ending CCal            | Q200422A_014 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200422A_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed         | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|------------------|-------------|-------|
| PFBA      | 8.0                  | 2.1        | 0.30       | 1        | 04/22/2020 19:47 | 375-22-4    | N2    |
| PFPeA     | 3.2                  | 2.1        | 0.26       | 1        | 04/22/2020 19:47 | 2706-90-3   | N2    |
| PFHxA     | 4.6                  | 2.1        | 0.36       | 1        | 04/22/2020 19:47 | 307-24-4    | N2    |
| PFHpA     | 3.4                  | 2.1        | 0.43       | 1        | 04/22/2020 19:47 | 375-85-9    | N2    |
| PFOA      | 6.2                  | 2.1        | 0.42       | 1        | 04/22/2020 19:47 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.1        | 0.57       | 1        | 04/22/2020 19:47 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.1        | 0.66       | 1        | 04/22/2020 19:47 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.1        | 0.54       | 1        | 04/22/2020 19:47 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.1        | 0.39       | 1        | 04/22/2020 19:47 | 307-55-1    | N2    |
| PFTrDA    | ND                   | 2.1        | 0.43       | 1        | 04/22/2020 19:47 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.1        | 0.39       | 1        | 04/22/2020 19:47 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.1        | 0.23       | 1        | 04/22/2020 19:47 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.1        | 0.90       | 1        | 04/22/2020 19:47 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.1        | 0.43       | 1        | 04/22/2020 19:47 | 2355-31-9   | N2    |
| PFBS      | 4.8                  | 1.8        | 0.20       | 1        | 04/22/2020 19:47 | 375-73-5    | N2    |
| PFPeS     | ND                   | 1.9        | 0.36       | 1        | 04/22/2020 19:47 | 2706-91-4   | N2    |
| PFHxS     | 10                   | 1.9        | 0.37       | 1        | 04/22/2020 19:47 | 355-46-4    | N2    |
| PFHpS     | ND                   | 1.9        | 0.45       | 1        | 04/22/2020 19:47 | 375-92-8    | N2    |
| PFOS      | ND                   | 1.9        | 0.38       | 1        | 04/22/2020 19:47 | 1763-23-1   | N2    |
| PFNS      | ND                   | 2.0        | 0.45       | 1        | 04/22/2020 19:47 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.0        | 0.32       | 1        | 04/22/2020 19:47 | 335-77-3    | N2    |
| 4:2FTS    | ND D                 | 19         | 5.7        | 10       | 04/23/2020 10:59 | 757124-72-4 | N2    |
| 6:2FTS    | ND                   | 1.9        | 0.91       | 1        | 04/22/2020 19:47 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 2.0        | 0.75       | 1        | 04/22/2020 19:47 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-104          | Date Extracted         | 04/21/2020   |
| Lab Sample ID      | 10515186004     | Total Amount Extracted | 244 mL       |
| Filename           | Q200422A_010    | ICAL ID                | 200421B01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200422A_003 |
| Collected          | 04/14/2020      | Ending CCal            | Q200422A_014 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200422A_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 21             | 19             | 93        | 50-150             | Pass      | 565441 |
| 13C5_PFPeA                     | 21             | 19             | 95        | 50-150             | Pass      | 419376 |
| 13C5_PFHxA                     | 21             | 20             | 96        | 50-150             | Pass      | 455223 |
| 13C4_PFHpA                     | 21             | 20             | 97        | 50-150             | Pass      | 460536 |
| 13C8_PFOA                      | 21             | 20             | 96        | 50-150             | Pass      | 512086 |
| 13C9_PFNA                      | 21             | 19             | 94        | 50-150             | Pass      | 581049 |
| 13C6_PFDA                      | 21             | 21             | 101       | 50-150             | Pass      | 500343 |
| 13C7_PFUdA                     | 21             | 19             | 94        | 50-150             | Pass      | 438506 |
| 13C2_PFDoA                     | 21             | 18             | 86        | 50-150             | Pass      | 435210 |
| 13C2_PFTeDA                    | 21             | 17             | 85        | 50-150             | Pass      | 323489 |
| d5-EtFOSAA                     | 21             | 18             | 90        | 50-150             | Pass      | 100700 |
| d3-MeFOSAA                     | 21             | 19             | 90        | 50-150             | Pass      | 83131  |
| 13C3_PFBS                      | 21             | 20             | 96        | 50-150             | Pass      | 320145 |
| 13C3_PFHxS                     | 21             | 19             | 92        | 50-150             | Pass      | 335110 |
| 13C8_PFOS                      | 21             | 18             | 90        | 50-150             | Pass      | 385249 |
| 13C8_PFOA                      | 21             | 18             | 87        | 50-150             | Pass      | 535800 |
| 13C2_4:2FTS                    | 21             | 18             | 88        | 50-150             | Pass      | 14963  |
| 13C2_6:2FTS                    | 21             | 23             | 114       | 50-150             | Pass      | 134283 |
| 13C2_8:2FTS                    | 21             | 21             | 101       | 50-150             | Pass      | 142188 |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 579687 | 361284 - 1083852 | 437712 - 1313135 | Pass      |
| 13C4_PFOS   | 403051 | 241967 - 725900  | 281179 - 843536  | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |               |
|--------------------|-----------------|------------------------|---------------|
| Client's Sample ID | MW-104-DUP      | Date Extracted         | 04/21/2020    |
| Lab Sample ID      | 10515186004-DUP | Total Amount Extracted | 239 mL        |
| Filename           | Q200422A_029    | ICAL ID                | 200421B01     |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200422A_024  |
| Collected          | 04/14/2020      | Ending CCal            | QDATASET1_001 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200422A_004  |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed        | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|-----------------|-------------|-------|
| PFBA      | 8.2                  | 2.1        | 0.30       | 1        | 04/23/202004:12 | 375-22-4    | N2    |
| PFPeA     | 3.3                  | 2.1        | 0.26       | 1        | 04/23/202004:12 | 2706-90-3   | N2    |
| PFHxA     | 4.6                  | 2.1        | 0.36       | 1        | 04/23/202004:12 | 307-24-4    | N2    |
| PFHpA     | 3.6                  | 2.1        | 0.44       | 1        | 04/23/202004:12 | 375-85-9    | N2    |
| PFOA      | 6.1                  | 2.1        | 0.42       | 1        | 04/23/202004:12 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.1        | 0.58       | 1        | 04/23/202004:12 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.1        | 0.67       | 1        | 04/23/202004:12 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.1        | 0.55       | 1        | 04/23/202004:12 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.1        | 0.40       | 1        | 04/23/202004:12 | 307-55-1    | N2    |
| PFTrDA    | ND                   | 2.1        | 0.44       | 1        | 04/23/202004:12 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.1        | 0.40       | 1        | 04/23/202004:12 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.1        | 0.24       | 1        | 04/23/202004:12 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.1        | 0.92       | 1        | 04/23/202004:12 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.1        | 0.44       | 1        | 04/23/202004:12 | 2355-31-9   | N2    |
| PFBS      | 4.7                  | 1.8        | 0.20       | 1        | 04/23/202004:12 | 375-73-5    | N2    |
| PFPeS     | ND                   | 2.0        | 0.36       | 1        | 04/23/202004:12 | 2706-91-4   | N2    |
| PFHxS     | 10                   | 1.9        | 0.37       | 1        | 04/23/202004:12 | 355-46-4    | N2    |
| PFHpS     | ND                   | 2.0        | 0.46       | 1        | 04/23/202004:12 | 375-92-8    | N2    |
| PFOS      | ND                   | 1.9        | 0.39       | 1        | 04/23/202004:12 | 1763-23-1   | N2    |
| PFNS      | ND                   | 2.0        | 0.46       | 1        | 04/23/202004:12 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.0        | 0.32       | 1        | 04/23/202004:12 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 2.0        | 0.58       | 1        | 04/23/202004:12 | 757124-72-4 | N2    |
| 6:2FTS    | 21                   | 2.0        | 0.93       | 1        | 04/23/202004:12 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 2.0        | 0.76       | 1        | 04/23/202004:12 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |                 |                        |               |
|--------------------|-----------------|------------------------|---------------|
| Client's Sample ID | MW-104-DUP      | Date Extracted         | 04/21/2020    |
| Lab Sample ID      | 10515186004-DUP | Total Amount Extracted | 239 mL        |
| Filename           | Q200422A_029    | ICAL ID                | 200421B01     |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200422A_024  |
| Collected          | 04/14/2020      | Ending CCal            | QDATASET1_001 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200422A_004  |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 21             | 19             | 91        | 50-150             | Pass      | 553364 |
| 13C5_PFPeA                     | 21             | 19             | 92        | 50-150             | Pass      | 410150 |
| 13C5_PFHxA                     | 21             | 20             | 94        | 50-150             | Pass      | 450836 |
| 13C4_PFHpA                     | 21             | 19             | 93        | 50-150             | Pass      | 446321 |
| 13C8_PFOA                      | 21             | 19             | 92        | 50-150             | Pass      | 496008 |
| 13C9_PFNA                      | 21             | 20             | 94        | 50-150             | Pass      | 569618 |
| 13C6_PFDA                      | 21             | 19             | 89        | 50-150             | Pass      | 433789 |
| 13C7_PFUdA                     | 21             | 21             | 100       | 50-150             | Pass      | 458207 |
| 13C2_PFDoA                     | 21             | 18             | 88        | 50-150             | Pass      | 439024 |
| 13C2_PFTeDA                    | 21             | 19             | 90        | 50-150             | Pass      | 335599 |
| d5-EtFOSAA                     | 21             | 18             | 87        | 50-150             | Pass      | 95876  |
| d3-MeFOSAA                     | 21             | 18             | 88        | 50-150             | Pass      | 79179  |
| 13C3_PFBS                      | 21             | 20             | 93        | 50-150             | Pass      | 314698 |
| 13C3_PFHxS                     | 21             | 18             | 87        | 50-150             | Pass      | 310569 |
| 13C8_PFOS                      | 21             | 18             | 88        | 50-150             | Pass      | 368038 |
| 13C8_PFOA                      | 21             | 18             | 86        | 50-150             | Pass      | 515657 |
| 13C2_4:2FTS                    | 21             | 31             | 146       | 50-150             | Pass      | 156763 |
| 13C2_6:2FTS                    | 21             | 22             | 105       | 50-150             | Pass      | 124656 |
| 13C2_8:2FTS                    | 21             | 20             | 97        | 50-150             | Pass      | 134117 |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 583837 | 361284 - 1083852 | 449854 - 1349561 | Pass      |
| 13C4_PFOS   | 395060 | 241967 - 725900  | 299472 - 898416  | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.





**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-105          | Date Extracted         | 04/21/2020   |
| Lab Sample ID      | 10515186005     | Total Amount Extracted | 234 mL       |
| Filename           | Q200422A_011    | ICAL ID                | 200421B01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200422A_003 |
| Collected          | 04/14/2020      | Ending CCal            | Q200422A_014 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200422A_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed        | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|-----------------|-------------|-------|
| PFBA      | ND                   | 2.1        | 0.31       | 1        | 04/22/202020:13 | 375-22-4    | N2    |
| PFPeA     | ND                   | 2.1        | 0.27       | 1        | 04/22/202020:13 | 2706-90-3   | N2    |
| PFHxA     | ND                   | 2.1        | 0.37       | 1        | 04/22/202020:13 | 307-24-4    | N2    |
| PFHpA     | ND                   | 2.1        | 0.45       | 1        | 04/22/202020:13 | 375-85-9    | N2    |
| PFOA      | 4.5                  | 2.1        | 0.44       | 1        | 04/22/202020:13 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.1        | 0.59       | 1        | 04/22/202020:13 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.1        | 0.69       | 1        | 04/22/202020:13 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.1        | 0.56       | 1        | 04/22/202020:13 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.1        | 0.41       | 1        | 04/22/202020:13 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 2.1        | 0.45       | 1        | 04/22/202020:13 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.1        | 0.41       | 1        | 04/22/202020:13 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.1        | 0.24       | 1        | 04/22/202020:13 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.1        | 0.94       | 1        | 04/22/202020:13 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.1        | 0.45       | 1        | 04/22/202020:13 | 2355-31-9   | N2    |
| PFBS      | 3.2                  | 1.9        | 0.21       | 1        | 04/22/202020:13 | 375-73-5    | N2    |
| PFPeS     | ND                   | 2.0        | 0.37       | 1        | 04/22/202020:13 | 2706-91-4   | N2    |
| PFHxS     | 5.6                  | 2.0        | 0.38       | 1        | 04/22/202020:13 | 355-46-4    | N2    |
| PFHpS     | ND                   | 2.0        | 0.47       | 1        | 04/22/202020:13 | 375-92-8    | N2    |
| PFOS      | 2.4                  | 2.0        | 0.40       | 1        | 04/22/202020:13 | 1763-23-1   | N2    |
| PFNS      | ND                   | 2.1        | 0.47       | 1        | 04/22/202020:13 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.1        | 0.33       | 1        | 04/22/202020:13 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 2.0        | 0.59       | 1        | 04/22/202020:13 | 757124-72-4 | N2    |
| 6:2FTS    | ND                   | 2.0        | 0.95       | 1        | 04/22/202020:13 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 2.1        | 0.78       | 1        | 04/22/202020:13 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-105          | Date Extracted         | 04/21/2020   |
| Lab Sample ID      | 10515186005     | Total Amount Extracted | 234 mL       |
| Filename           | Q200422A_011    | ICAL ID                | 200421B01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200422A_003 |
| Collected          | 04/14/2020      | Ending CCal            | Q200422A_014 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200422A_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 21             | 18             | 86        | 50-150             | Pass      | 571933 |
| 13C5_PFPeA                     | 21             | 19             | 89        | 50-150             | Pass      | 430320 |
| 13C5_PFHxA                     | 21             | 21             | 96        | 50-150             | Pass      | 499992 |
| 13C4_PFHpA                     | 21             | 20             | 95        | 50-150             | Pass      | 492585 |
| 13C8_PFOA                      | 21             | 19             | 88        | 50-150             | Pass      | 514246 |
| 13C9_PFNA                      | 21             | 20             | 93        | 50-150             | Pass      | 584906 |
| 13C6_PFDA                      | 21             | 21             | 97        | 50-150             | Pass      | 488707 |
| 13C7_PFUdA                     | 21             | 20             | 93        | 50-150             | Pass      | 441300 |
| 13C2_PFDoA                     | 21             | 19             | 88        | 50-150             | Pass      | 450946 |
| 13C2_PFTeDA                    | 21             | 18             | 85        | 50-150             | Pass      | 327257 |
| d5-EtFOSAA                     | 21             | 18             | 84        | 50-150             | Pass      | 95362  |
| d3-MeFOSAA                     | 21             | 19             | 88        | 50-150             | Pass      | 82300  |
| 13C3_PFBS                      | 21             | 19             | 90        | 50-150             | Pass      | 328461 |
| 13C3_PFHxS                     | 21             | 19             | 91        | 50-150             | Pass      | 336028 |
| 13C8_PFOS                      | 21             | 19             | 91        | 50-150             | Pass      | 393798 |
| 13C8_PFOA                      | 21             | 19             | 88        | 50-150             | Pass      | 546592 |
| 13C2_4:2FTS                    | 21             | 28             | 131       | 50-150             | Pass      | 152286 |
| 13C2_6:2FTS                    | 21             | 22             | 104       | 50-150             | Pass      | 133905 |
| 13C2_8:2FTS                    | 21             | 22             | 101       | 50-150             | Pass      | 143933 |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 631983 | 361284 - 1083852 | 437712 - 1313135 | Pass      |
| 13C4_PFOS   | 409757 | 241967 - 725900  | 281179 - 843536  | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |               |                        |              |
|--------------------|---------------|------------------------|--------------|
| Client's Sample ID | Field Blank A | Date Extracted         | 04/21/2020   |
| Lab Sample ID      | 10515186006   | Total Amount Extracted | 243 mL       |
| Filename           | Q200422A_012  | ICAL ID                | 200421B01    |
| Matrix             | Water         | Starting CCal          | Q200422A_003 |
| Collected          | 04/14/2020    | Ending CCal            | Q200422A_014 |
| Received           | 04/17/2020    | Method Blank Filename  | Q200422A_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed         | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|------------------|-------------|-------|
| PFBA      | ND                   | 2.1        | 0.30       | 1        | 04/22/2020 20:40 | 375-22-4    | N2    |
| PFPeA     | ND                   | 2.1        | 0.26       | 1        | 04/22/2020 20:40 | 2706-90-3   | N2    |
| PFHxA     | ND                   | 2.1        | 0.36       | 1        | 04/22/2020 20:40 | 307-24-4    | N2    |
| PFHpA     | ND                   | 2.1        | 0.44       | 1        | 04/22/2020 20:40 | 375-85-9    | N2    |
| PFOA      | ND                   | 2.1        | 0.42       | 1        | 04/22/2020 20:40 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.1        | 0.57       | 1        | 04/22/2020 20:40 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.1        | 0.66       | 1        | 04/22/2020 20:40 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.1        | 0.54       | 1        | 04/22/2020 20:40 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.1        | 0.40       | 1        | 04/22/2020 20:40 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 2.1        | 0.44       | 1        | 04/22/2020 20:40 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.1        | 0.40       | 1        | 04/22/2020 20:40 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.1        | 0.23       | 1        | 04/22/2020 20:40 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.1        | 0.90       | 1        | 04/22/2020 20:40 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.1        | 0.43       | 1        | 04/22/2020 20:40 | 2355-31-9   | N2    |
| PFBS      | ND                   | 1.8        | 0.20       | 1        | 04/22/2020 20:40 | 375-73-5    | N2    |
| PFPeS     | ND                   | 1.9        | 0.36       | 1        | 04/22/2020 20:40 | 2706-91-4   | N2    |
| PFHxS     | ND                   | 1.9        | 0.37       | 1        | 04/22/2020 20:40 | 355-46-4    | N2    |
| PFHpS     | ND                   | 2.0        | 0.45       | 1        | 04/22/2020 20:40 | 375-92-8    | N2    |
| PFOS      | ND                   | 1.9        | 0.39       | 1        | 04/22/2020 20:40 | 1763-23-1   | N2    |
| PFNS      | ND                   | 2.0        | 0.45       | 1        | 04/22/2020 20:40 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.0        | 0.32       | 1        | 04/22/2020 20:40 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 1.9        | 0.57       | 1        | 04/22/2020 20:40 | 757124-72-4 | N2    |
| 6:2FTS    | ND                   | 2.0        | 0.92       | 1        | 04/22/2020 20:40 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 2.0        | 0.75       | 1        | 04/22/2020 20:40 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |               |                        |              |
|--------------------|---------------|------------------------|--------------|
| Client's Sample ID | Field Blank A | Date Extracted         | 04/21/2020   |
| Lab Sample ID      | 10515186006   | Total Amount Extracted | 243 mL       |
| Filename           | Q200422A_012  | ICAL ID                | 200421B01    |
| Matrix             | Water         | Starting CCal          | Q200422A_003 |
| Collected          | 04/14/2020    | Ending CCal            | Q200422A_014 |
| Received           | 04/17/2020    | Method Blank Filename  | Q200422A_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 21             | 18             | 87        | 50-150             | Pass      | 574363 |
| 13C5_PFPeA                     | 21             | 18             | 88        | 50-150             | Pass      | 429395 |
| 13C5_PFHxA                     | 21             | 19             | 92        | 50-150             | Pass      | 480048 |
| 13C4_PFHpA                     | 21             | 19             | 92        | 50-150             | Pass      | 475857 |
| 13C8_PFOA                      | 21             | 18             | 89        | 50-150             | Pass      | 523141 |
| 13C9_PFNA                      | 21             | 19             | 92        | 50-150             | Pass      | 583710 |
| 13C6_PFDA                      | 21             | 18             | 88        | 50-150             | Pass      | 446514 |
| 13C7_PFUdA                     | 21             | 19             | 90        | 50-150             | Pass      | 431836 |
| 13C2_PFDoA                     | 21             | 18             | 87        | 50-150             | Pass      | 448838 |
| 13C2_PFTeDA                    | 21             | 17             | 83        | 50-150             | Pass      | 324241 |
| d5-EtFOSAA                     | 21             | 16             | 79        | 50-150             | Pass      | 90983  |
| d3-MeFOSAA                     | 21             | 18             | 86        | 50-150             | Pass      | 81098  |
| 13C3_PFBS                      | 21             | 19             | 91        | 50-150             | Pass      | 332589 |
| 13C3_PFHxS                     | 21             | 19             | 94        | 50-150             | Pass      | 349009 |
| 13C8_PFOS                      | 21             | 18             | 90        | 50-150             | Pass      | 392386 |
| 13C8_PFOSA                     | 21             | 16             | 77        | 50-150             | Pass      | 485893 |
| 13C2_4:2FTS                    | 21             | 19             | 94        | 50-150             | Pass      | 108948 |
| 13C2_6:2FTS                    | 21             | 18             | 90        | 50-150             | Pass      | 115467 |
| 13C2_8:2FTS                    | 21             | 19             | 92        | 50-150             | Pass      | 133029 |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 633924 | 361284 - 1083852 | 437712 - 1313135 | Pass      |
| 13C4_PFOS   | 412717 | 241967 - 725900  | 281179 - 843536  | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-106          | Date Extracted         | 04/21/2020   |
| Lab Sample ID      | 10515186007     | Total Amount Extracted | 237 mL       |
| Filename           | Q200422A_013    | ICAL ID                | 200421B01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200422A_003 |
| Collected          | 04/15/2020      | Ending CCal            | Q200422A_014 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200422A_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed        | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|-----------------|-------------|-------|
| PFBA      | 11                   | 2.1        | 0.31       | 1        | 04/22/202021:06 | 375-22-4    | N2    |
| PFPeA     | 8.0                  | 2.1        | 0.26       | 1        | 04/22/202021:06 | 2706-90-3   | N2    |
| PFHxA     | 10                   | 2.1        | 0.37       | 1        | 04/22/202021:06 | 307-24-4    | N2    |
| PFHpA     | 5.4                  | 2.1        | 0.45       | 1        | 04/22/202021:06 | 375-85-9    | N2    |
| PFOA      | 16                   | 2.1        | 0.43       | 1        | 04/22/202021:06 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.1        | 0.59       | 1        | 04/22/202021:06 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.1        | 0.68       | 1        | 04/22/202021:06 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.1        | 0.55       | 1        | 04/22/202021:06 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.1        | 0.41       | 1        | 04/22/202021:06 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 2.1        | 0.45       | 1        | 04/22/202021:06 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.1        | 0.41       | 1        | 04/22/202021:06 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.1        | 0.24       | 1        | 04/22/202021:06 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.1        | 0.93       | 1        | 04/22/202021:06 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.1        | 0.45       | 1        | 04/22/202021:06 | 2355-31-9   | N2    |
| PFBS      | 5.8                  | 1.9        | 0.20       | 1        | 04/22/202021:06 | 375-73-5    | N2    |
| PFPeS     | ND                   | 2.0        | 0.37       | 1        | 04/22/202021:06 | 2706-91-4   | N2    |
| PFHxS     | 9.5                  | 1.9        | 0.38       | 1        | 04/22/202021:06 | 355-46-4    | N2    |
| PFHpS     | ND                   | 2.0        | 0.46       | 1        | 04/22/202021:06 | 375-92-8    | N2    |
| PFOS      | ND                   | 2.0        | 0.40       | 1        | 04/22/202021:06 | 1763-23-1   | N2    |
| PFNS      | ND                   | 2.0        | 0.46       | 1        | 04/22/202021:06 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.0        | 0.33       | 1        | 04/22/202021:06 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 2.0        | 0.59       | 1        | 04/22/202021:06 | 757124-72-4 | N2    |
| 6:2FTS    | ND                   | 2.0        | 0.94       | 1        | 04/22/202021:06 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 2.0        | 0.77       | 1        | 04/22/202021:06 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-106          | Date Extracted         | 04/21/2020   |
| Lab Sample ID      | 10515186007     | Total Amount Extracted | 237 mL       |
| Filename           | Q200422A_013    | ICAL ID                | 200421B01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200422A_003 |
| Collected          | 04/15/2020      | Ending CCal            | Q200422A_014 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200422A_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 21             | 20             | 95        | 50-150             | Pass      | 569260 |
| 13C5_PFPeA                     | 21             | 20             | 92        | 50-150             | Pass      | 403688 |
| 13C5_PFHxA                     | 21             | 20             | 95        | 50-150             | Pass      | 443732 |
| 13C4_PFHpA                     | 21             | 20             | 97        | 50-150             | Pass      | 452586 |
| 13C8_PFOA                      | 21             | 20             | 95        | 50-150             | Pass      | 503838 |
| 13C9_PFNA                      | 21             | 18             | 87        | 50-150             | Pass      | 534579 |
| 13C6_PFDA                      | 21             | 20             | 96        | 50-150             | Pass      | 471924 |
| 13C7_PFUdA                     | 21             | 20             | 97        | 50-150             | Pass      | 448080 |
| 13C2_PFDoA                     | 21             | 20             | 93        | 50-150             | Pass      | 468792 |
| 13C2_PFTeDA                    | 21             | 18             | 86        | 50-150             | Pass      | 322995 |
| d5-EtFOSAA                     | 21             | 18             | 83        | 50-150             | Pass      | 92154  |
| d3-MeFOSAA                     | 21             | 19             | 88        | 50-150             | Pass      | 80045  |
| 13C3_PFBS                      | 21             | 21             | 99        | 50-150             | Pass      | 325118 |
| 13C3_PFHxS                     | 21             | 19             | 88        | 50-150             | Pass      | 318991 |
| 13C8_PFOS                      | 21             | 19             | 89        | 50-150             | Pass      | 377469 |
| 13C8_PFOA                      | 21             | 19             | 88        | 50-150             | Pass      | 534881 |
| 13C2_4:2FTS                    | 21             | 32             | 150       | 50-150             | Pass      | 157152 |
| 13C2_6:2FTS                    | 21             | 24             | 115       | 50-150             | Pass      | 133941 |
| 13C2_8:2FTS                    | 21             | 21             | 98        | 50-150             | Pass      | 136503 |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 570500 | 361284 - 1083852 | 437712 - 1313135 | Pass      |
| 13C4_PFOS   | 399964 | 241967 - 725900  | 281179 - 843536  | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | Dup-1           | Date Extracted         | 04/21/2020   |
| Lab Sample ID      | 10515186008     | Total Amount Extracted | 236 mL       |
| Filename           | Q200422A_015    | ICAL ID                | 200421B01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200422A_014 |
| Collected          | 04/15/2020      | Ending CCal            | Q200422A_024 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200422A_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed         | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|------------------|-------------|-------|
| PFBA      | 12                   | 2.1        | 0.31       | 1        | 04/22/2020 22:00 | 375-22-4    | N2    |
| PFPeA     | 8.4                  | 2.1        | 0.26       | 1        | 04/22/2020 22:00 | 2706-90-3   | N2    |
| PFHxA     | 11                   | 2.1        | 0.37       | 1        | 04/22/2020 22:00 | 307-24-4    | N2    |
| PFHpA     | 5.4                  | 2.1        | 0.45       | 1        | 04/22/2020 22:00 | 375-85-9    | N2    |
| PFOA      | 18                   | 2.1        | 0.43       | 1        | 04/22/2020 22:00 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.1        | 0.59       | 1        | 04/22/2020 22:00 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.1        | 0.68       | 1        | 04/22/2020 22:00 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.1        | 0.56       | 1        | 04/22/2020 22:00 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.1        | 0.41       | 1        | 04/22/2020 22:00 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 2.1        | 0.45       | 1        | 04/22/2020 22:00 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.1        | 0.41       | 1        | 04/22/2020 22:00 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.1        | 0.24       | 1        | 04/22/2020 22:00 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.1        | 0.93       | 1        | 04/22/2020 22:00 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.1        | 0.45       | 1        | 04/22/2020 22:00 | 2355-31-9   | N2    |
| PFBS      | 5.7                  | 1.9        | 0.20       | 1        | 04/22/2020 22:00 | 375-73-5    | N2    |
| PFPeS     | ND                   | 2.0        | 0.37       | 1        | 04/22/2020 22:00 | 2706-91-4   | N2    |
| PFHxS     | 9.7                  | 1.9        | 0.38       | 1        | 04/22/2020 22:00 | 355-46-4    | N2    |
| PFHpS     | ND                   | 2.0        | 0.46       | 1        | 04/22/2020 22:00 | 375-92-8    | N2    |
| PFOS      | ND                   | 2.0        | 0.40       | 1        | 04/22/2020 22:00 | 1763-23-1   | N2    |
| PFNS      | ND                   | 2.0        | 0.46       | 1        | 04/22/2020 22:00 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.0        | 0.33       | 1        | 04/22/2020 22:00 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 2.0        | 0.59       | 1        | 04/22/2020 22:00 | 757124-72-4 | N2    |
| 6:2FTS    | ND                   | 2.0        | 0.94       | 1        | 04/22/2020 22:00 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 2.0        | 0.77       | 1        | 04/22/2020 22:00 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | Dup-1           | Date Extracted         | 04/21/2020   |
| Lab Sample ID      | 10515186008     | Total Amount Extracted | 236 mL       |
| Filename           | Q200422A_015    | ICAL ID                | 200421B01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200422A_014 |
| Collected          | 04/15/2020      | Ending CCal            | Q200422A_024 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200422A_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 21             | 18             | 85        | 50-150             | Pass      | 536806 |
| 13C5_PFPeA                     | 21             | 18             | 83        | 50-150             | Pass      | 384046 |
| 13C5_PFHxA                     | 21             | 18             | 87        | 50-150             | Pass      | 429804 |
| 13C4_PFHpA                     | 21             | 19             | 91        | 50-150             | Pass      | 448930 |
| 13C8_PFOA                      | 21             | 18             | 87        | 50-150             | Pass      | 485997 |
| 13C9_PFNA                      | 21             | 20             | 95        | 50-150             | Pass      | 570614 |
| 13C6_PFDA                      | 21             | 21             | 98        | 50-150             | Pass      | 475535 |
| 13C7_PFUdA                     | 21             | 19             | 90        | 50-150             | Pass      | 410348 |
| 13C2_PFDoA                     | 21             | 18             | 87        | 50-150             | Pass      | 430261 |
| 13C2_PFTeDA                    | 21             | 17             | 82        | 50-150             | Pass      | 303100 |
| d5-EtFOSAA                     | 21             | 17             | 79        | 50-150             | Pass      | 86027  |
| d3-MeFOSAA                     | 21             | 19             | 88        | 50-150             | Pass      | 78774  |
| 13C3_PFBS                      | 21             | 19             | 89        | 50-150             | Pass      | 307321 |
| 13C3_PFHxS                     | 21             | 18             | 87        | 50-150             | Pass      | 307583 |
| 13C8_PFOS                      | 21             | 18             | 84        | 50-150             | Pass      | 348422 |
| 13C8_PFOA                      | 21             | 17             | 81        | 50-150             | Pass      | 482748 |
| 13C2_4:2FTS                    | 21             | 28             | 131       | 50-150             | Pass      | 144725 |
| 13C2_6:2FTS                    | 21             | 22             | 105       | 50-150             | Pass      | 128559 |
| 13C2_8:2FTS                    | 21             | 20             | 95        | 50-150             | Pass      | 130344 |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 600980 | 361284 - 1083852 | 412227 - 1236681 | Pass      |
| 13C4_PFOS   | 392101 | 241967 - 725900  | 267976 - 803929  | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.





**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-108          | Date Extracted         | 04/21/2020   |
| Lab Sample ID      | 10515186010     | Total Amount Extracted | 234 mL       |
| Filename           | Q200422A_016    | ICAL ID                | 200421B01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200422A_014 |
| Collected          | 04/15/2020      | Ending CCal            | Q200422A_024 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200422A_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed        | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|-----------------|-------------|-------|
| PFBA      | 7.9                  | 2.1        | 0.31       | 1        | 04/22/202022:26 | 375-22-4    | N2    |
| PFPeA     | 2.5                  | 2.1        | 0.27       | 1        | 04/22/202022:26 | 2706-90-3   | N2    |
| PFHxA     | 3.3                  | 2.1        | 0.37       | 1        | 04/22/202022:26 | 307-24-4    | N2    |
| PFHpA     | ND                   | 2.1        | 0.45       | 1        | 04/22/202022:26 | 375-85-9    | N2    |
| PFOA      | 5.0                  | 2.1        | 0.44       | 1        | 04/22/202022:26 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.1        | 0.59       | 1        | 04/22/202022:26 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.1        | 0.69       | 1        | 04/22/202022:26 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.1        | 0.56       | 1        | 04/22/202022:26 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.1        | 0.41       | 1        | 04/22/202022:26 | 307-55-1    | N2    |
| PFTrDA    | ND                   | 2.1        | 0.45       | 1        | 04/22/202022:26 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.1        | 0.41       | 1        | 04/22/202022:26 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.1        | 0.24       | 1        | 04/22/202022:26 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.1        | 0.94       | 1        | 04/22/202022:26 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.1        | 0.45       | 1        | 04/22/202022:26 | 2355-31-9   | N2    |
| PFBS      | 3.5                  | 1.9        | 0.21       | 1        | 04/22/202022:26 | 375-73-5    | N2    |
| PFPeS     | ND                   | 2.0        | 0.37       | 1        | 04/22/202022:26 | 2706-91-4   | N2    |
| PFHxS     | ND                   | 2.0        | 0.38       | 1        | 04/22/202022:26 | 355-46-4    | N2    |
| PFHpS     | ND                   | 2.0        | 0.47       | 1        | 04/22/202022:26 | 375-92-8    | N2    |
| PFOS      | ND                   | 2.0        | 0.40       | 1        | 04/22/202022:26 | 1763-23-1   | N2    |
| PFNS      | ND                   | 2.1        | 0.47       | 1        | 04/22/202022:26 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.1        | 0.33       | 1        | 04/22/202022:26 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 2.0        | 0.59       | 1        | 04/22/202022:26 | 757124-72-4 | N2    |
| 6:2FTS    | ND                   | 2.0        | 0.95       | 1        | 04/22/202022:26 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 2.1        | 0.78       | 1        | 04/22/202022:26 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-108          | Date Extracted         | 04/21/2020   |
| Lab Sample ID      | 10515186010     | Total Amount Extracted | 234 mL       |
| Filename           | Q200422A_016    | ICAL ID                | 200421B01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200422A_014 |
| Collected          | 04/15/2020      | Ending CCal            | Q200422A_024 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200422A_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 21             | 18             | 84        | 50-150             | Pass      | 609140 |
| 13C5_PFPeA                     | 21             | 18             | 84        | 50-150             | Pass      | 441566 |
| 13C5_PFHxA                     | 21             | 19             | 87        | 50-150             | Pass      | 492085 |
| 13C4_PFHpA                     | 21             | 19             | 88        | 50-150             | Pass      | 500482 |
| 13C8_PFOA                      | 21             | 20             | 93        | 50-150             | Pass      | 594337 |
| 13C9_PFNA                      | 21             | 21             | 99        | 50-150             | Pass      | 667333 |
| 13C6_PFDA                      | 21             | 21             | 100       | 50-150             | Pass      | 545426 |
| 13C7_PFUdA                     | 21             | 21             | 97        | 50-150             | Pass      | 498189 |
| 13C2_PFDoA                     | 21             | 19             | 88        | 50-150             | Pass      | 486617 |
| 13C2_PFTeDA                    | 21             | 18             | 86        | 50-150             | Pass      | 358957 |
| d5-EtFOSAA                     | 21             | 17             | 81        | 50-150             | Pass      | 98805  |
| d3-MeFOSAA                     | 21             | 18             | 86        | 50-150             | Pass      | 86128  |
| 13C3_PFBS                      | 21             | 19             | 89        | 50-150             | Pass      | 355519 |
| 13C3_PFHxS                     | 21             | 19             | 89        | 50-150             | Pass      | 356043 |
| 13C8_PFOS                      | 21             | 19             | 90        | 50-150             | Pass      | 419747 |
| 13C8_PFOA                      | 21             | 11             | 52        | 50-150             | Pass      | 345521 |
| 13C2_4:2FTS                    | 21             | 30             | 139       | 50-150             | Pass      | 175581 |
| 13C2_6:2FTS                    | 21             | 22             | 104       | 50-150             | Pass      | 145945 |
| 13C2_8:2FTS                    | 21             | 21             | 100       | 50-150             | Pass      | 153027 |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 690156 | 361284 - 1083852 | 412227 - 1236681 | Pass      |
| 13C4_PFOS   | 440987 | 241967 - 725900  | 267976 - 803929  | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-109          | Date Extracted         | 04/21/2020   |
| Lab Sample ID      | 10515186011     | Total Amount Extracted | 231 mL       |
| Filename           | Q200422A_017    | ICAL ID                | 200421B01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200422A_014 |
| Collected          | 04/15/2020      | Ending CCal            | Q200422A_024 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200422A_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed        | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|-----------------|-------------|-------|
| PFBA      | 10                   | 2.2        | 0.32       | 1        | 04/22/202022:53 | 375-22-4    | N2    |
| PFPeA     | 17                   | 2.2        | 0.27       | 1        | 04/22/202022:53 | 2706-90-3   | N2    |
| PFHxA     | 26                   | 2.2        | 0.38       | 1        | 04/22/202022:53 | 307-24-4    | N2    |
| PFHpA     | 26                   | 2.2        | 0.46       | 1        | 04/22/202022:53 | 375-85-9    | N2    |
| PFOA      | 19                   | 2.2        | 0.44       | 1        | 04/22/202022:53 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.2        | 0.60       | 1        | 04/22/202022:53 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.2        | 0.69       | 1        | 04/22/202022:53 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.2        | 0.57       | 1        | 04/22/202022:53 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.2        | 0.42       | 1        | 04/22/202022:53 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 2.2        | 0.46       | 1        | 04/22/202022:53 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.2        | 0.42       | 1        | 04/22/202022:53 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.2        | 0.25       | 1        | 04/22/202022:53 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.2        | 0.95       | 1        | 04/22/202022:53 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.2        | 0.46       | 1        | 04/22/202022:53 | 2355-31-9   | N2    |
| PFBS      | 4.3                  | 1.9        | 0.21       | 1        | 04/22/202022:53 | 375-73-5    | N2    |
| PFPeS     | ND                   | 2.0        | 0.38       | 1        | 04/22/202022:53 | 2706-91-4   | N2    |
| PFHxS     | ND                   | 2.0        | 0.39       | 1        | 04/22/202022:53 | 355-46-4    | N2    |
| PFHpS     | ND                   | 2.1        | 0.47       | 1        | 04/22/202022:53 | 375-92-8    | N2    |
| PFOS      | ND                   | 2.0        | 0.40       | 1        | 04/22/202022:53 | 1763-23-1   | N2    |
| PFNS      | ND                   | 2.1        | 0.47       | 1        | 04/22/202022:53 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.1        | 0.34       | 1        | 04/22/202022:53 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 2.0        | 0.60       | 1        | 04/22/202022:53 | 757124-72-4 | N2    |
| 6:2FTS    | 120                  | 2.1        | 0.96       | 1        | 04/22/202022:53 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 2.1        | 0.79       | 1        | 04/22/202022:53 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-109          | Date Extracted         | 04/21/2020   |
| Lab Sample ID      | 10515186011     | Total Amount Extracted | 231 mL       |
| Filename           | Q200422A_017    | ICAL ID                | 200421B01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200422A_014 |
| Collected          | 04/15/2020      | Ending CCal            | Q200422A_024 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200422A_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 22             | 20             | 90        | 50-150             | Pass      | 619820 |
| 13C5_PFPeA                     | 22             | 19             | 86        | 50-150             | Pass      | 432554 |
| 13C5_PFHxA                     | 22             | 20             | 93        | 50-150             | Pass      | 499845 |
| 13C4_PFHpA                     | 22             | 21             | 98        | 50-150             | Pass      | 528981 |
| 13C8_PFOA                      | 22             | 21             | 95        | 50-150             | Pass      | 575335 |
| 13C9_PFNA                      | 22             | 21             | 98        | 50-150             | Pass      | 663651 |
| 13C6_PFDA                      | 22             | 22             | 100       | 50-150             | Pass      | 542324 |
| 13C7_PFUdA                     | 22             | 20             | 94        | 50-150             | Pass      | 482808 |
| 13C2_PFDoA                     | 22             | 20             | 94        | 50-150             | Pass      | 523230 |
| 13C2_PFTeDA                    | 22             | 19             | 87        | 50-150             | Pass      | 361677 |
| d5-EtFOSAA                     | 22             | 19             | 87        | 50-150             | Pass      | 105907 |
| d3-MeFOSAA                     | 22             | 20             | 93        | 50-150             | Pass      | 93149  |
| 13C3_PFBS                      | 22             | 20             | 94        | 50-150             | Pass      | 356652 |
| 13C3_PFHxS                     | 22             | 20             | 93        | 50-150             | Pass      | 368952 |
| 13C8_PFOS                      | 22             | 19             | 90        | 50-150             | Pass      | 419178 |
| 13C8_PFOA                      | 22             | 15             | 69        | 50-150             | Pass      | 465291 |
| 13C2_4:2FTS                    | 22             | 31             | 144       | 50-150             | Pass      | 173218 |
| 13C2_6:2FTS                    | 22             | 23             | 106       | 50-150             | Pass      | 141781 |
| 13C2_8:2FTS                    | 22             | 22             | 101       | 50-150             | Pass      | 155593 |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 655672 | 361284 - 1083852 | 412227 - 1236681 | Pass      |
| 13C4_PFOS   | 441104 | 241967 - 725900  | 267976 - 803929  | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |               |                        |              |
|--------------------|---------------|------------------------|--------------|
| Client's Sample ID | Field Blank B | Date Extracted         | 04/21/2020   |
| Lab Sample ID      | 10515186013   | Total Amount Extracted | 241 mL       |
| Filename           | Q200422A_018  | ICAL ID                | 200421B01    |
| Matrix             | Water         | Starting CCal          | Q200422A_014 |
| Collected          | 04/15/2020    | Ending CCal            | Q200422A_024 |
| Received           | 04/17/2020    | Method Blank Filename  | Q200422A_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed         | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|------------------|-------------|-------|
| PFBA      | ND                   | 2.1        | 0.30       | 1        | 04/22/2020 23:19 | 375-22-4    | N2    |
| PFPeA     | ND                   | 2.1        | 0.26       | 1        | 04/22/2020 23:19 | 2706-90-3   | N2    |
| PFHxA     | ND                   | 2.1        | 0.36       | 1        | 04/22/2020 23:19 | 307-24-4    | N2    |
| PFHpA     | ND                   | 2.1        | 0.44       | 1        | 04/22/2020 23:19 | 375-85-9    | N2    |
| PFOA      | ND                   | 2.1        | 0.42       | 1        | 04/22/2020 23:19 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.1        | 0.58       | 1        | 04/22/2020 23:19 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.1        | 0.67       | 1        | 04/22/2020 23:19 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.1        | 0.55       | 1        | 04/22/2020 23:19 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.1        | 0.40       | 1        | 04/22/2020 23:19 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 2.1        | 0.44       | 1        | 04/22/2020 23:19 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.1        | 0.40       | 1        | 04/22/2020 23:19 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.1        | 0.24       | 1        | 04/22/2020 23:19 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.1        | 0.91       | 1        | 04/22/2020 23:19 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.1        | 0.44       | 1        | 04/22/2020 23:19 | 2355-31-9   | N2    |
| PFBS      | ND                   | 1.8        | 0.20       | 1        | 04/22/2020 23:19 | 375-73-5    | N2    |
| PFPeS     | ND                   | 2.0        | 0.36       | 1        | 04/22/2020 23:19 | 2706-91-4   | N2    |
| PFHxS     | ND                   | 1.9        | 0.37       | 1        | 04/22/2020 23:19 | 355-46-4    | N2    |
| PFHpS     | ND                   | 2.0        | 0.45       | 1        | 04/22/2020 23:19 | 375-92-8    | N2    |
| PFOS      | ND                   | 1.9        | 0.39       | 1        | 04/22/2020 23:19 | 1763-23-1   | N2    |
| PFNS      | ND                   | 2.0        | 0.45       | 1        | 04/22/2020 23:19 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.0        | 0.32       | 1        | 04/22/2020 23:19 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 1.9        | 0.58       | 1        | 04/22/2020 23:19 | 757124-72-4 | N2    |
| 6:2FTS    | 53                   | 2.0        | 0.93       | 1        | 04/22/2020 23:19 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 2.0        | 0.76       | 1        | 04/22/2020 23:19 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |               |                        |              |
|--------------------|---------------|------------------------|--------------|
| Client's Sample ID | Field Blank B | Date Extracted         | 04/21/2020   |
| Lab Sample ID      | 10515186013   | Total Amount Extracted | 241 mL       |
| Filename           | Q200422A_018  | ICAL ID                | 200421B01    |
| Matrix             | Water         | Starting CCal          | Q200422A_014 |
| Collected          | 04/15/2020    | Ending CCal            | Q200422A_024 |
| Received           | 04/17/2020    | Method Blank Filename  | Q200422A_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 21             | 19             | 91        | 50-150             | Pass      | 572218 |
| 13C5_PFPeA                     | 21             | 19             | 92        | 50-150             | Pass      | 423827 |
| 13C5_PFHxA                     | 21             | 20             | 96        | 50-150             | Pass      | 473719 |
| 13C4_PFHpA                     | 21             | 20             | 96        | 50-150             | Pass      | 475135 |
| 13C8_PFOA                      | 21             | 19             | 92        | 50-150             | Pass      | 514129 |
| 13C9_PFNA                      | 21             | 19             | 92        | 50-150             | Pass      | 568673 |
| 13C6_PFDA                      | 21             | 19             | 91        | 50-150             | Pass      | 450430 |
| 13C7_PFUdA                     | 21             | 20             | 94        | 50-150             | Pass      | 439206 |
| 13C2_PFDoA                     | 21             | 19             | 92        | 50-150             | Pass      | 464199 |
| 13C2_PFTeDA                    | 21             | 19             | 90        | 50-150             | Pass      | 341642 |
| d5-EtFOSAA                     | 21             | 17             | 84        | 50-150             | Pass      | 93266  |
| d3-MeFOSAA                     | 21             | 18             | 87        | 50-150             | Pass      | 80059  |
| 13C3_PFBS                      | 21             | 20             | 94        | 50-150             | Pass      | 326940 |
| 13C3_PFHxS                     | 21             | 19             | 91        | 50-150             | Pass      | 329733 |
| 13C8_PFOS                      | 21             | 18             | 87        | 50-150             | Pass      | 371999 |
| 13C8_PFOA                      | 21             | 15             | 73        | 50-150             | Pass      | 445265 |
| 13C2_4:2FTS                    | 21             | 20             | 94        | 50-150             | Pass      | 104185 |
| 13C2_6:2FTS                    | 21             | 19             | 91        | 50-150             | Pass      | 111997 |
| 13C2_8:2FTS                    | 21             | 19             | 92        | 50-150             | Pass      | 129171 |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 602341 | 361284 - 1083852 | 412227 - 1236681 | Pass      |
| 13C4_PFOS   | 402279 | 241967 - 725900  | 267976 - 803929  | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-111          | Date Extracted         | 04/28/2020   |
| Lab Sample ID      | 10515186014-R   | Total Amount Extracted | 243 mL       |
| Filename           | Q200501B_007    | ICAL ID                | 200501A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200501B_003 |
| Collected          | 04/16/2020      | Ending CCal            | Q200501B_014 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200501B_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed         | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|------------------|-------------|-------|
| PFBA      | 3.0                  | 2.1        | 0.30       | 1        | 05/01/2020 17:29 | 375-22-4    | N2    |
| PFPeA     | ND                   | 2.1        | 0.26       | 1        | 05/01/2020 17:29 | 2706-90-3   | N2    |
| PFHxA     | ND                   | 2.1        | 0.36       | 1        | 05/01/2020 17:29 | 307-24-4    | N2    |
| PFHpA     | ND                   | 2.1        | 0.44       | 1        | 05/01/2020 17:29 | 375-85-9    | N2    |
| PFOA      | 4.9                  | 2.1        | 0.42       | 1        | 05/01/2020 17:29 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.1        | 0.57       | 1        | 05/01/2020 17:29 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.1        | 0.66       | 1        | 05/01/2020 17:29 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.1        | 0.54       | 1        | 05/01/2020 17:29 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.1        | 0.39       | 1        | 05/01/2020 17:29 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 2.1        | 0.44       | 1        | 05/01/2020 17:29 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.1        | 0.39       | 1        | 05/01/2020 17:29 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.1        | 0.23       | 1        | 05/01/2020 17:29 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.1        | 0.90       | 1        | 05/01/2020 17:29 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.1        | 0.43       | 1        | 05/01/2020 17:29 | 2355-31-9   | N2    |
| PFBS      | 3.5                  | 1.8        | 0.20       | 1        | 05/01/2020 17:29 | 375-73-5    | N2    |
| PFPeS     | ND                   | 1.9        | 0.36       | 1        | 05/01/2020 17:29 | 2706-91-4   | N2    |
| PFHxS     | ND                   | 1.9        | 0.37       | 1        | 05/01/2020 17:29 | 355-46-4    | N2    |
| PFHpS     | ND                   | 2.0        | 0.45       | 1        | 05/01/2020 17:29 | 375-92-8    | N2    |
| PFOS      | ND                   | 1.9        | 0.38       | 1        | 05/01/2020 17:29 | 1763-23-1   | N2    |
| PFNS      | ND                   | 2.0        | 0.45       | 1        | 05/01/2020 17:29 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.0        | 0.32       | 1        | 05/01/2020 17:29 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 1.9        | 0.57       | 1        | 05/01/2020 17:29 | 757124-72-4 | N2    |
| 6:2FTS    | ND                   | 2.0        | 0.92       | 1        | 05/01/2020 17:29 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 2.0        | 0.75       | 1        | 05/01/2020 17:29 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-111          | Date Extracted         | 04/28/2020   |
| Lab Sample ID      | 10515186014-R   | Total Amount Extracted | 243 mL       |
| Filename           | Q200501B_007    | ICAL ID                | 200501A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200501B_003 |
| Collected          | 04/16/2020      | Ending CCal            | Q200501B_014 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200501B_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 21             | 20             | 99        | 50-150             | Pass      | 751228 |
| 13C5_PFPeA                     | 21             | 19             | 94        | 50-150             | Pass      | 571777 |
| 13C5_PFHxA                     | 21             | 20             | 96        | 50-150             | Pass      | 639697 |
| 13C4_PFHpA                     | 21             | 19             | 94        | 50-150             | Pass      | 565216 |
| 13C8_PFOA                      | 21             | 19             | 94        | 50-150             | Pass      | 625890 |
| 13C9_PFNA                      | 21             | 19             | 92        | 50-150             | Pass      | 596331 |
| 13C6_PFDA                      | 21             | 20             | 96        | 50-150             | Pass      | 499060 |
| 13C7_PFUdA                     | 21             | 19             | 91        | 50-150             | Pass      | 436957 |
| 13C2_PFDoA                     | 21             | 18             | 85        | 50-150             | Pass      | 407817 |
| 13C2_PFTeDA                    | 21             | 15             | 75        | 50-150             | Pass      | 311905 |
| d5-EtFOSAA                     | 21             | 17             | 84        | 50-150             | Pass      | 102255 |
| d3-MeFOSAA                     | 21             | 18             | 88        | 50-150             | Pass      | 90300  |
| 13C3_PFBS                      | 21             | 18             | 87        | 50-150             | Pass      | 499255 |
| 13C3_PFHxS                     | 21             | 20             | 97        | 50-150             | Pass      | 498281 |
| 13C8_PFOS                      | 21             | 19             | 93        | 50-150             | Pass      | 579307 |
| 13C8_PFOA                      | 21             | 11             | 53        | 50-150             | Pass      | 559446 |
| 13C2_4:2FTS                    | 21             | 21             | 102       | 50-150             | Pass      | 144550 |
| 13C2_6:2FTS                    | 21             | 19             | 92        | 50-150             | Pass      | 113646 |
| 13C2_8:2FTS                    | 21             | 15             | 72        | 50-150             | Pass      | 88356  |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 726255 | 394529 - 1183586 | 483327 - 1449981 | Pass      |
| 13C4_PFOS   | 594537 | 343349 - 1030047 | 396036 - 1188109 | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.





**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | Dup-2           | Date Extracted         | 04/28/2020   |
| Lab Sample ID      | 10515186015-R   | Total Amount Extracted | 241 mL       |
| Filename           | Q200501B_008    | ICAL ID                | 200501A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200501B_003 |
| Collected          | 04/16/2020      | Ending CCal            | Q200501B_014 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200501B_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed         | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|------------------|-------------|-------|
| PFBA      | 2.5                  | 2.1        | 0.30       | 1        | 05/01/2020 17:56 | 375-22-4    | N2    |
| PFPeA     | ND                   | 2.1        | 0.26       | 1        | 05/01/2020 17:56 | 2706-90-3   | N2    |
| PFHxA     | ND                   | 2.1        | 0.36       | 1        | 05/01/2020 17:56 | 307-24-4    | N2    |
| PFHpA     | ND                   | 2.1        | 0.44       | 1        | 05/01/2020 17:56 | 375-85-9    | N2    |
| PFOA      | 2.7                  | 2.1        | 0.42       | 1        | 05/01/2020 17:56 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.1        | 0.57       | 1        | 05/01/2020 17:56 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.1        | 0.66       | 1        | 05/01/2020 17:56 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.1        | 0.54       | 1        | 05/01/2020 17:56 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.1        | 0.40       | 1        | 05/01/2020 17:56 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 2.1        | 0.44       | 1        | 05/01/2020 17:56 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.1        | 0.40       | 1        | 05/01/2020 17:56 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.1        | 0.24       | 1        | 05/01/2020 17:56 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.1        | 0.91       | 1        | 05/01/2020 17:56 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.1        | 0.44       | 1        | 05/01/2020 17:56 | 2355-31-9   | N2    |
| PFBS      | 3.1                  | 1.8        | 0.20       | 1        | 05/01/2020 17:56 | 375-73-5    | N2    |
| PFPeS     | ND                   | 1.9        | 0.36       | 1        | 05/01/2020 17:56 | 2706-91-4   | N2    |
| PFHxS     | ND                   | 1.9        | 0.37       | 1        | 05/01/2020 17:56 | 355-46-4    | N2    |
| PFHpS     | ND                   | 2.0        | 0.45       | 1        | 05/01/2020 17:56 | 375-92-8    | N2    |
| PFOS      | ND                   | 1.9        | 0.39       | 1        | 05/01/2020 17:56 | 1763-23-1   | N2    |
| PFNS      | ND                   | 2.0        | 0.45       | 1        | 05/01/2020 17:56 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.0        | 0.32       | 1        | 05/01/2020 17:56 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 1.9        | 0.57       | 1        | 05/01/2020 17:56 | 757124-72-4 | N2    |
| 6:2FTS    | ND                   | 2.0        | 0.92       | 1        | 05/01/2020 17:56 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 2.0        | 0.76       | 1        | 05/01/2020 17:56 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | Dup-2           | Date Extracted         | 04/28/2020   |
| Lab Sample ID      | 10515186015-R   | Total Amount Extracted | 241 mL       |
| Filename           | Q200501B_008    | ICAL ID                | 200501A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200501B_003 |
| Collected          | 04/16/2020      | Ending CCal            | Q200501B_014 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200501B_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 21             | 19             | 93        | 50-150             | Pass      | 724074 |
| 13C5_PFPeA                     | 21             | 18             | 87        | 50-150             | Pass      | 546030 |
| 13C5_PFHxA                     | 21             | 20             | 96        | 50-150             | Pass      | 664175 |
| 13C4_PFHpA                     | 21             | 19             | 92        | 50-150             | Pass      | 572050 |
| 13C8_PFOA                      | 21             | 18             | 87        | 50-150             | Pass      | 597289 |
| 13C9_PFNA                      | 21             | 18             | 89        | 50-150             | Pass      | 592036 |
| 13C6_PFDA                      | 21             | 20             | 94        | 50-150             | Pass      | 507528 |
| 13C7_PFUdA                     | 21             | 20             | 95        | 50-150             | Pass      | 470293 |
| 13C2_PFDoA                     | 21             | 17             | 83        | 50-150             | Pass      | 409626 |
| 13C2_PFTeDA                    | 21             | 16             | 76        | 50-150             | Pass      | 326323 |
| d5-EtFOSAA                     | 21             | 16             | 79        | 50-150             | Pass      | 98682  |
| d3-MeFOSAA                     | 21             | 17             | 82        | 50-150             | Pass      | 86121  |
| 13C3_PFBS                      | 21             | 18             | 87        | 50-150             | Pass      | 511178 |
| 13C3_PFHxS                     | 21             | 20             | 95        | 50-150             | Pass      | 501048 |
| 13C8_PFOS                      | 21             | 18             | 88        | 50-150             | Pass      | 568122 |
| 13C8_PFOA                      | 21             | 11             | 54        | 50-150             | Pass      | 586346 |
| 13C2_4:2FTS                    | 21             | 20             | 95        | 50-150             | Pass      | 138753 |
| 13C2_6:2FTS                    | 21             | 19             | 90        | 50-150             | Pass      | 114233 |
| 13C2_8:2FTS                    | 21             | 15             | 70        | 50-150             | Pass      | 88889  |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 749507 | 394529 - 1183586 | 483327 - 1449981 | Pass      |
| 13C4_PFOS   | 612617 | 343349 - 1030047 | 396036 - 1188109 | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-112          | Date Extracted         | 04/28/2020   |
| Lab Sample ID      | 10515186016-R   | Total Amount Extracted | 240 mL       |
| Filename           | Q200501B_009    | ICAL ID                | 200501A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200501B_003 |
| Collected          | 04/16/2020      | Ending CCal            | Q200501B_014 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200501B_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed         | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|------------------|-------------|-------|
| PFBA      | 19                   | 2.1        | 0.30       | 1        | 05/01/2020 18:23 | 375-22-4    | N2    |
| PFPeA     | 2.7                  | 2.1        | 0.26       | 1        | 05/01/2020 18:23 | 2706-90-3   | N2    |
| PFHxA     | 3.8                  | 2.1        | 0.36       | 1        | 05/01/2020 18:23 | 307-24-4    | N2    |
| PFHpA     | 2.8                  | 2.1        | 0.44       | 1        | 05/01/2020 18:23 | 375-85-9    | N2    |
| PFOA      | 42                   | 2.1        | 0.42       | 1        | 05/01/2020 18:23 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.1        | 0.58       | 1        | 05/01/2020 18:23 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.1        | 0.67       | 1        | 05/01/2020 18:23 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.1        | 0.55       | 1        | 05/01/2020 18:23 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.1        | 0.40       | 1        | 05/01/2020 18:23 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 2.1        | 0.44       | 1        | 05/01/2020 18:23 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.1        | 0.40       | 1        | 05/01/2020 18:23 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.1        | 0.24       | 1        | 05/01/2020 18:23 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.1        | 0.92       | 1        | 05/01/2020 18:23 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.1        | 0.44       | 1        | 05/01/2020 18:23 | 2355-31-9   | N2    |
| PFBS      | 7.0                  | 1.8        | 0.20       | 1        | 05/01/2020 18:23 | 375-73-5    | N2    |
| PFPeS     | ND                   | 2.0        | 0.36       | 1        | 05/01/2020 18:23 | 2706-91-4   | N2    |
| PFHxS     | 3.9                  | 1.9        | 0.37       | 1        | 05/01/2020 18:23 | 355-46-4    | N2    |
| PFHpS     | ND                   | 2.0        | 0.46       | 1        | 05/01/2020 18:23 | 375-92-8    | N2    |
| PFOS      | 7.7                  | 1.9        | 0.39       | 1        | 05/01/2020 18:23 | 1763-23-1   | N2    |
| PFNS      | ND                   | 2.0        | 0.46       | 1        | 05/01/2020 18:23 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.0        | 0.32       | 1        | 05/01/2020 18:23 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 2.0        | 0.58       | 1        | 05/01/2020 18:23 | 757124-72-4 | N2    |
| 6:2FTS    | 5.5                  | 2.0        | 0.93       | 1        | 05/01/2020 18:23 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 2.0        | 0.76       | 1        | 05/01/2020 18:23 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-112          | Date Extracted         | 04/28/2020   |
| Lab Sample ID      | 10515186016-R   | Total Amount Extracted | 240 mL       |
| Filename           | Q200501B_009    | ICAL ID                | 200501A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200501B_003 |
| Collected          | 04/16/2020      | Ending CCal            | Q200501B_014 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200501B_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 21             | 18             | 87        | 50-150             | Pass      | 650399 |
| 13C5_PFPeA                     | 21             | 17             | 82        | 50-150             | Pass      | 489038 |
| 13C5_PFHxA                     | 21             | 19             | 90        | 50-150             | Pass      | 589882 |
| 13C4_PFHpA                     | 21             | 19             | 93        | 50-150             | Pass      | 550030 |
| 13C8_PFOA                      | 21             | 18             | 87        | 50-150             | Pass      | 565441 |
| 13C9_PFNA                      | 21             | 18             | 84        | 50-150             | Pass      | 543706 |
| 13C6_PFDA                      | 21             | 21             | 99        | 50-150             | Pass      | 510905 |
| 13C7_PFUdA                     | 21             | 20             | 94        | 50-150             | Pass      | 448053 |
| 13C2_PFDoA                     | 21             | 18             | 85        | 50-150             | Pass      | 401327 |
| 13C2_PFTeDA                    | 21             | 16             | 78        | 50-150             | Pass      | 322593 |
| d5-EtFOSAA                     | 21             | 19             | 93        | 50-150             | Pass      | 111717 |
| d3-MeFOSAA                     | 21             | 18             | 85        | 50-150             | Pass      | 86749  |
| 13C3_PFBS                      | 21             | 18             | 84        | 50-150             | Pass      | 470938 |
| 13C3_PFHxS                     | 21             | 20             | 94        | 50-150             | Pass      | 478624 |
| 13C8_PFOS                      | 21             | 18             | 86        | 50-150             | Pass      | 535033 |
| 13C8_PFOSA                     | 21             | 6.8            | 33        | 50-150             | Fail      | 343026 |
| 13C2_4:2FTS                    | 21             | 24             | 115       | 50-150             | Pass      | 159529 |
| 13C2_6:2FTS                    | 21             | 20             | 94        | 50-150             | Pass      | 113546 |
| 13C2_8:2FTS                    | 21             | 15             | 72        | 50-150             | Pass      | 88472  |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 711986 | 394529 - 1183586 | 483327 - 1449981 | Pass      |
| 13C4_PFOS   | 591092 | 343349 - 1030047 | 396036 - 1188109 | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-113          | Date Extracted         | 04/28/2020   |
| Lab Sample ID      | 10515186017-R   | Total Amount Extracted | 243 mL       |
| Filename           | Q200501B_010    | ICAL ID                | 200501A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200501B_003 |
| Collected          | 04/16/2020      | Ending CCal            | Q200501B_014 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200501B_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed         | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|------------------|-------------|-------|
| PFBA      | ND                   | 2.1        | 0.30       | 1        | 05/01/2020 18:49 | 375-22-4    | N2    |
| PFPeA     | ND                   | 2.1        | 0.26       | 1        | 05/01/2020 18:49 | 2706-90-3   | N2    |
| PFHxA     | ND                   | 2.1        | 0.36       | 1        | 05/01/2020 18:49 | 307-24-4    | N2    |
| PFHpA     | ND                   | 2.1        | 0.44       | 1        | 05/01/2020 18:49 | 375-85-9    | N2    |
| PFOA      | ND                   | 2.1        | 0.42       | 1        | 05/01/2020 18:49 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.1        | 0.57       | 1        | 05/01/2020 18:49 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.1        | 0.66       | 1        | 05/01/2020 18:49 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.1        | 0.54       | 1        | 05/01/2020 18:49 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.1        | 0.39       | 1        | 05/01/2020 18:49 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 2.1        | 0.44       | 1        | 05/01/2020 18:49 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.1        | 0.39       | 1        | 05/01/2020 18:49 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.1        | 0.23       | 1        | 05/01/2020 18:49 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.1        | 0.90       | 1        | 05/01/2020 18:49 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.1        | 0.43       | 1        | 05/01/2020 18:49 | 2355-31-9   | N2    |
| PFBS      | ND                   | 1.8        | 0.20       | 1        | 05/01/2020 18:49 | 375-73-5    | N2    |
| PFPeS     | ND                   | 1.9        | 0.36       | 1        | 05/01/2020 18:49 | 2706-91-4   | N2    |
| PFHxS     | ND                   | 1.9        | 0.37       | 1        | 05/01/2020 18:49 | 355-46-4    | N2    |
| PFHpS     | ND                   | 2.0        | 0.45       | 1        | 05/01/2020 18:49 | 375-92-8    | N2    |
| PFOS      | ND                   | 1.9        | 0.38       | 1        | 05/01/2020 18:49 | 1763-23-1   | N2    |
| PFNS      | ND                   | 2.0        | 0.45       | 1        | 05/01/2020 18:49 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.0        | 0.32       | 1        | 05/01/2020 18:49 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 1.9        | 0.57       | 1        | 05/01/2020 18:49 | 757124-72-4 | N2    |
| 6:2FTS    | ND                   | 2.0        | 0.92       | 1        | 05/01/2020 18:49 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 2.0        | 0.75       | 1        | 05/01/2020 18:49 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-113          | Date Extracted         | 04/28/2020   |
| Lab Sample ID      | 10515186017-R   | Total Amount Extracted | 243 mL       |
| Filename           | Q200501B_010    | ICAL ID                | 200501A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200501B_003 |
| Collected          | 04/16/2020      | Ending CCal            | Q200501B_014 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200501B_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 21             | 18             | 86        | 50-150             | Pass      | 728906 |
| 13C5_PFPeA                     | 21             | 17             | 81        | 50-150             | Pass      | 552024 |
| 13C5_PFHxA                     | 21             | 16             | 79        | 50-150             | Pass      | 592009 |
| 13C4_PFHpA                     | 21             | 17             | 85        | 50-150             | Pass      | 575077 |
| 13C8_PFOA                      | 21             | 16             | 80        | 50-150             | Pass      | 595477 |
| 13C9_PFNA                      | 21             | 19             | 93        | 50-150             | Pass      | 621324 |
| 13C6_PFDA                      | 21             | 20             | 99        | 50-150             | Pass      | 533013 |
| 13C7_PFUdA                     | 21             | 18             | 90        | 50-150             | Pass      | 445308 |
| 13C2_PFDoA                     | 21             | 17             | 84        | 50-150             | Pass      | 413666 |
| 13C2_PFTeDA                    | 21             | 16             | 80        | 50-150             | Pass      | 342562 |
| d5-EtFOSAA                     | 21             | 17             | 85        | 50-150             | Pass      | 106030 |
| d3-MeFOSAA                     | 21             | 19             | 91        | 50-150             | Pass      | 95732  |
| 13C3_PFBS                      | 21             | 16             | 77        | 50-150             | Pass      | 495362 |
| 13C3_PFHxS                     | 21             | 19             | 92        | 50-150             | Pass      | 485998 |
| 13C8_PFOS                      | 21             | 18             | 86        | 50-150             | Pass      | 551783 |
| 13C8_PFOA                      | 21             | 14             | 66        | 50-150             | Pass      | 722502 |
| 13C2_4:2FTS                    | 21             | 19             | 95        | 50-150             | Pass      | 150983 |
| 13C2_6:2FTS                    | 21             | 17             | 83        | 50-150             | Pass      | 115646 |
| 13C2_8:2FTS                    | 21             | 15             | 75        | 50-150             | Pass      | 95584  |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 815428 | 394529 - 1183586 | 483327 - 1449981 | Pass      |
| 13C4_PFOS   | 614276 | 343349 - 1030047 | 396036 - 1188109 | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-114          | Date Extracted         | 04/28/2020   |
| Lab Sample ID      | 10515186018-R   | Total Amount Extracted | 241 mL       |
| Filename           | Q200501B_011    | ICAL ID                | 200501A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200501B_003 |
| Collected          | 04/16/2020      | Ending CCal            | Q200501B_014 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200501B_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed         | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|------------------|-------------|-------|
| PFBA      | 8.1                  | 2.1        | 0.30       | 1        | 05/01/2020 19:16 | 375-22-4    | N2    |
| PFPeA     | ND                   | 2.1        | 0.26       | 1        | 05/01/2020 19:16 | 2706-90-3   | N2    |
| PFHxA     | 5.1                  | 2.1        | 0.36       | 1        | 05/01/2020 19:16 | 307-24-4    | N2    |
| PFHpA     | ND                   | 2.1        | 0.44       | 1        | 05/01/2020 19:16 | 375-85-9    | N2    |
| PFOA      | 3.8                  | 2.1        | 0.42       | 1        | 05/01/2020 19:16 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.1        | 0.58       | 1        | 05/01/2020 19:16 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.1        | 0.66       | 1        | 05/01/2020 19:16 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.1        | 0.54       | 1        | 05/01/2020 19:16 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.1        | 0.40       | 1        | 05/01/2020 19:16 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 2.1        | 0.44       | 1        | 05/01/2020 19:16 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.1        | 0.40       | 1        | 05/01/2020 19:16 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.1        | 0.24       | 1        | 05/01/2020 19:16 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.1        | 0.91       | 1        | 05/01/2020 19:16 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.1        | 0.44       | 1        | 05/01/2020 19:16 | 2355-31-9   | N2    |
| PFBS      | 2.5                  | 1.8        | 0.20       | 1        | 05/01/2020 19:16 | 375-73-5    | N2    |
| PFPeS     | ND                   | 1.9        | 0.36       | 1        | 05/01/2020 19:16 | 2706-91-4   | N2    |
| PFHxS     | 10                   | 1.9        | 0.37       | 1        | 05/01/2020 19:16 | 355-46-4    | N2    |
| PFHpS     | ND                   | 2.0        | 0.45       | 1        | 05/01/2020 19:16 | 375-92-8    | N2    |
| PFOS      | 2.7                  | 1.9        | 0.39       | 1        | 05/01/2020 19:16 | 1763-23-1   | N2    |
| PFNS      | ND                   | 2.0        | 0.45       | 1        | 05/01/2020 19:16 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.0        | 0.32       | 1        | 05/01/2020 19:16 | 335-77-3    | N2    |
| 4:2FTS    | ND D                 | 19         | 5.8        | 10       | 05/04/2020 12:36 | 757124-72-4 | N2    |
| 6:2FTS    | ND D                 | 20         | 9.2        | 10       | 05/04/2020 12:36 | 27619-97-2  | N2    |
| 8:2FTS    | ND D                 | 20         | 7.6        | 10       | 05/04/2020 12:36 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-114          | Date Extracted         | 04/28/2020   |
| Lab Sample ID      | 10515186018-R   | Total Amount Extracted | 241 mL       |
| Filename           | Q200501B_011    | ICAL ID                | 200501A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200501B_003 |
| Collected          | 04/16/2020      | Ending CCal            | Q200501B_014 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200501B_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 21             | 12             | 57        | 50-150             | Pass      | 456593 |
| 13C5_PFPeA                     | 21             | 13             | 62        | 50-150             | Pass      | 401593 |
| 13C5_PFHxA                     | 21             | 13             | 62        | 50-150             | Pass      | 438912 |
| 13C4_PFHpA                     | 21             | 16             | 76        | 50-150             | Pass      | 485631 |
| 13C8_PFOA                      | 21             | 18             | 85        | 50-150             | Pass      | 600844 |
| 13C9_PFNA                      | 21             | 18             | 85        | 50-150             | Pass      | 600203 |
| 13C6_PFDA                      | 21             | 19             | 93        | 50-150             | Pass      | 527317 |
| 13C7_PFUdA                     | 21             | 20             | 95        | 50-150             | Pass      | 496191 |
| 13C2_PFDoA                     | 21             | 17             | 82        | 50-150             | Pass      | 425325 |
| 13C2_PFTeDA                    | 21             | 14             | 69        | 50-150             | Pass      | 313963 |
| d5-EtFOSAA                     | 21             | 31             | 148       | 50-150             | Pass      | 195456 |
| d3-MeFOSAA                     | 21             | 21             | 102       | 50-150             | Pass      | 113781 |
| 13C3_PFBS                      | 21             | 16             | 78        | 50-150             | Pass      | 470622 |
| 13C3_PFHxS                     | 21             | 18             | 86        | 50-150             | Pass      | 479700 |
| 13C8_PFOS                      | 21             | 18             | 85        | 50-150             | Pass      | 575971 |
| 13C8_PFOA                      | 21             | 15             | 72        | 50-150             | Pass      | 823868 |
| 13C2_4:2FTS                    | 21             | 22             | 105       | 50-150             | Pass      | 19492  |
| 13C2_6:2FTS                    | 21             | 19             | 94        | 50-150             | Pass      | 15222  |
| 13C2_8:2FTS                    | 21             | 16             | 76        | 50-150             | Pass      | 12048  |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 772399 | 394529 - 1183586 | 483327 - 1449981 | Pass      |
| 13C4_PFOS   | 647888 | 343349 - 1030047 | 396036 - 1188109 | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.





**PFAS by Isotope Dilution**  
**Sample Analysis Summary**

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-115          | Date Extracted         | 04/28/2020   |
| Lab Sample ID      | 10515186019-R   | Total Amount Extracted | 119 mL       |
| Filename           | Q200501B_012    | ICAL ID                | 200501A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200501B_003 |
| Collected          | 04/16/2020      | Ending CCal            | Q200501B_014 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200501B_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed         | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|------------------|-------------|-------|
| PFBA      | 4.4                  | 4.2        | 0.61       | 1        | 05/01/2020 19:42 | 375-22-4    | N2    |
| PFPeA     | ND                   | 4.2        | 0.53       | 1        | 05/01/2020 19:42 | 2706-90-3   | N2    |
| PFHxA     | ND                   | 4.2        | 0.73       | 1        | 05/01/2020 19:42 | 307-24-4    | N2    |
| PFHpA     | ND                   | 4.2        | 0.89       | 1        | 05/01/2020 19:42 | 375-85-9    | N2    |
| PFOA      | ND                   | 4.2        | 0.85       | 1        | 05/01/2020 19:42 | 335-67-1    | N2    |
| PFNA      | ND                   | 4.2        | 1.2        | 1        | 05/01/2020 19:42 | 375-95-1    | N2    |
| PFDA      | ND                   | 4.2        | 1.3        | 1        | 05/01/2020 19:42 | 335-76-2    | N2    |
| PFUnA     | ND                   | 4.2        | 1.1        | 1        | 05/01/2020 19:42 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 4.2        | 0.81       | 1        | 05/01/2020 19:42 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 4.2        | 0.89       | 1        | 05/01/2020 19:42 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 4.2        | 0.81       | 1        | 05/01/2020 19:42 | 376-06-7    | N2    |
| PFOSA     | ND                   | 4.2        | 0.48       | 1        | 05/01/2020 19:42 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 4.2        | 1.8        | 1        | 05/01/2020 19:42 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 4.2        | 0.89       | 1        | 05/01/2020 19:42 | 2355-31-9   | N2    |
| PFBS      | ND                   | 3.7        | 0.40       | 1        | 05/01/2020 19:42 | 375-73-5    | N2    |
| PFPeS     | ND                   | 3.9        | 0.73       | 1        | 05/01/2020 19:42 | 2706-91-4   | N2    |
| PFHxS     | ND                   | 3.8        | 0.75       | 1        | 05/01/2020 19:42 | 355-46-4    | N2    |
| PFHpS     | ND                   | 4.0        | 0.92       | 1        | 05/01/2020 19:42 | 375-92-8    | N2    |
| PFOS      | ND                   | 3.9        | 0.79       | 1        | 05/01/2020 19:42 | 1763-23-1   | N2    |
| PFNS      | ND                   | 4.0        | 0.92       | 1        | 05/01/2020 19:42 | 68259-12-1  | N2    |
| PFDS      | ND                   | 4.1        | 0.65       | 1        | 05/01/2020 19:42 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 3.9        | 1.2        | 1        | 05/01/2020 19:42 | 757124-72-4 | N2    |
| 6:2FTS    | 4.8                  | 4.0        | 1.9        | 1        | 05/01/2020 19:42 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 4.0        | 1.5        | 1        | 05/01/2020 19:42 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-115          | Date Extracted         | 04/28/2020   |
| Lab Sample ID      | 10515186019-R   | Total Amount Extracted | 119 mL       |
| Filename           | Q200501B_012    | ICAL ID                | 200501A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200501B_003 |
| Collected          | 04/16/2020      | Ending CCal            | Q200501B_014 |
| Received           | 04/17/2020      | Method Blank Filename  | Q200501B_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 42             | 24             | 56        | 50-150             | Pass      | 520074 |
| 13C5_PFPeA                     | 42             | 22             | 54        | 50-150             | Pass      | 397051 |
| 13C5_PFHxA                     | 42             | 21             | 51        | 50-150             | Pass      | 413364 |
| 13C4_PFHpA                     | 42             | 22             | 52        | 50-150             | Pass      | 379811 |
| 13C8_PFOA                      | 42             | 21             | 49        | 50-150             | Fail      | 400769 |
| 13C9_PFNA                      | 42             | 27             | 65        | 50-150             | Pass      | 442353 |
| 13C6_PFDA                      | 42             | 28             | 67        | 50-150             | Pass      | 366582 |
| 13C7_PFUdA                     | 42             | 26             | 61        | 50-150             | Pass      | 307487 |
| 13C2_PFDoA                     | 42             | 28             | 67        | 50-150             | Pass      | 333778 |
| 13C2_PFTeDA                    | 42             | 25             | 61        | 50-150             | Pass      | 263234 |
| d5-EtFOSAA                     | 42             | 27             | 65        | 50-150             | Pass      | 82829  |
| d3-MeFOSAA                     | 42             | 26             | 62        | 50-150             | Pass      | 66678  |
| 13C3_PFBS                      | 42             | 20             | 47        | 50-150             | Fail      | 326380 |
| 13C3_PFHxS                     | 42             | 26             | 62        | 50-150             | Pass      | 334072 |
| 13C8_PFOS                      | 42             | 24             | 58        | 50-150             | Pass      | 376513 |
| 13C8_PFOA                      | 42             | 12             | 29        | 50-150             | Fail      | 320422 |
| 13C2_4:2FTS                    | 42             | 23             | 56        | 50-150             | Pass      | 96941  |
| 13C2_6:2FTS                    | 42             | 23             | 54        | 50-150             | Pass      | 81804  |
| 13C2_8:2FTS                    | 42             | 22             | 53        | 50-150             | Pass      | 67713  |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 888672 | 394529 - 1183586 | 483327 - 1449981 | Pass      |
| 13C4_PFOS   | 622735 | 343349 - 1030047 | 396036 - 1188109 | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |               |                        |               |
|--------------------|---------------|------------------------|---------------|
| Client's Sample ID | Field Blank C | Date Extracted         | 04/21/2020    |
| Lab Sample ID      | 10515186020   | Total Amount Extracted | 240 mL        |
| Filename           | Q200422A_026  | ICAL ID                | 200421B01     |
| Matrix             | Water         | Starting CCal          | Q200422A_024  |
| Collected          | 04/16/2020    | Ending CCal            | QDATASET1_001 |
| Received           | 04/17/2020    | Method Blank Filename  | Q200422A_004  |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed        | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|-----------------|-------------|-------|
| PFBA      | ND                   | 2.1        | 0.30       | 1        | 04/23/202002:52 | 375-22-4    | N2    |
| PFPeA     | ND                   | 2.1        | 0.26       | 1        | 04/23/202002:52 | 2706-90-3   | N2    |
| PFHxA     | ND                   | 2.1        | 0.36       | 1        | 04/23/202002:52 | 307-24-4    | N2    |
| PFHpA     | ND                   | 2.1        | 0.44       | 1        | 04/23/202002:52 | 375-85-9    | N2    |
| PFOA      | ND                   | 2.1        | 0.42       | 1        | 04/23/202002:52 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.1        | 0.58       | 1        | 04/23/202002:52 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.1        | 0.67       | 1        | 04/23/202002:52 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.1        | 0.55       | 1        | 04/23/202002:52 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.1        | 0.40       | 1        | 04/23/202002:52 | 307-55-1    | N2    |
| PFTrDA    | ND                   | 2.1        | 0.44       | 1        | 04/23/202002:52 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.1        | 0.40       | 1        | 04/23/202002:52 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.1        | 0.24       | 1        | 04/23/202002:52 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.1        | 0.91       | 1        | 04/23/202002:52 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.1        | 0.44       | 1        | 04/23/202002:52 | 2355-31-9   | N2    |
| PFBS      | ND                   | 1.8        | 0.20       | 1        | 04/23/202002:52 | 375-73-5    | N2    |
| PFPeS     | ND                   | 2.0        | 0.36       | 1        | 04/23/202002:52 | 2706-91-4   | N2    |
| PFHxS     | ND                   | 1.9        | 0.37       | 1        | 04/23/202002:52 | 355-46-4    | N2    |
| PFHpS     | ND                   | 2.0        | 0.46       | 1        | 04/23/202002:52 | 375-92-8    | N2    |
| PFOS      | ND                   | 1.9        | 0.39       | 1        | 04/23/202002:52 | 1763-23-1   | N2    |
| PFNS      | ND                   | 2.0        | 0.46       | 1        | 04/23/202002:52 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.0        | 0.32       | 1        | 04/23/202002:52 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 2.0        | 0.58       | 1        | 04/23/202002:52 | 757124-72-4 | N2    |
| 6:2FTS    | 130                  | 2.0        | 0.93       | 1        | 04/23/202002:52 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 2.0        | 0.76       | 1        | 04/23/202002:52 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |               |                        |               |
|--------------------|---------------|------------------------|---------------|
| Client's Sample ID | Field Blank C | Date Extracted         | 04/21/2020    |
| Lab Sample ID      | 10515186020   | Total Amount Extracted | 240 mL        |
| Filename           | Q200422A_026  | ICAL ID                | 200421B01     |
| Matrix             | Water         | Starting CCal          | Q200422A_024  |
| Collected          | 04/16/2020    | Ending CCal            | QDATASET1_001 |
| Received           | 04/17/2020    | Method Blank Filename  | Q200422A_004  |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 21             | 18             | 89        | 50-150             | Pass      | 552674 |
| 13C5_PFPeA                     | 21             | 19             | 90        | 50-150             | Pass      | 410154 |
| 13C5_PFHxA                     | 21             | 19             | 90        | 50-150             | Pass      | 442557 |
| 13C4_PFHpA                     | 21             | 19             | 92        | 50-150             | Pass      | 451540 |
| 13C8_PFOA                      | 21             | 19             | 90        | 50-150             | Pass      | 498508 |
| 13C9_PFNA                      | 21             | 19             | 90        | 50-150             | Pass      | 554004 |
| 13C6_PFDA                      | 21             | 19             | 91        | 50-150             | Pass      | 448435 |
| 13C7_PFUdA                     | 21             | 18             | 87        | 50-150             | Pass      | 403639 |
| 13C2_PFDoA                     | 21             | 19             | 90        | 50-150             | Pass      | 451301 |
| 13C2_PFTeDA                    | 21             | 18             | 88        | 50-150             | Pass      | 333556 |
| d5-EtFOSAA                     | 21             | 17             | 82        | 50-150             | Pass      | 90762  |
| d3-MeFOSAA                     | 21             | 16             | 79        | 50-150             | Pass      | 72172  |
| 13C3_PFBS                      | 21             | 19             | 89        | 50-150             | Pass      | 306080 |
| 13C3_PFHxS                     | 21             | 19             | 92        | 50-150             | Pass      | 330424 |
| 13C8_PFOS                      | 21             | 17             | 83        | 50-150             | Pass      | 351945 |
| 13C8_PFOA                      | 21             | 16             | 75        | 50-150             | Pass      | 458655 |
| 13C2_4:2FTS                    | 21             | 20             | 95        | 50-150             | Pass      | 103434 |
| 13C2_6:2FTS                    | 21             | 19             | 91        | 50-150             | Pass      | 110134 |
| 13C2_8:2FTS                    | 21             | 19             | 93        | 50-150             | Pass      | 129389 |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 596545 | 361284 - 1083852 | 449854 - 1349561 | Pass      |
| 13C4_PFOS   | 399905 | 241967 - 725900  | 299472 - 898416  | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |              |                        |               |
|--------------------|--------------|------------------------|---------------|
| Client's Sample ID | Trip Blank   | Date Extracted         | 04/21/2020    |
| Lab Sample ID      | 10515186021  | Total Amount Extracted | 240 mL        |
| Filename           | Q200422A_027 | ICAL ID                | 200421B01     |
| Matrix             | Water        | Starting CCal          | Q200422A_024  |
| Collected          | 04/14/2020   | Ending CCal            | QDATASET1_001 |
| Received           | 04/17/2020   | Method Blank Filename  | Q200422A_004  |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed        | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|-----------------|-------------|-------|
| PFBA      | ND                   | 2.1        | 0.30       | 1        | 04/23/202003:19 | 375-22-4    | N2    |
| PFPeA     | ND                   | 2.1        | 0.26       | 1        | 04/23/202003:19 | 2706-90-3   | N2    |
| PFHxA     | ND                   | 2.1        | 0.36       | 1        | 04/23/202003:19 | 307-24-4    | N2    |
| PFHpA     | ND                   | 2.1        | 0.44       | 1        | 04/23/202003:19 | 375-85-9    | N2    |
| PFOA      | ND                   | 2.1        | 0.42       | 1        | 04/23/202003:19 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.1        | 0.58       | 1        | 04/23/202003:19 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.1        | 0.67       | 1        | 04/23/202003:19 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.1        | 0.55       | 1        | 04/23/202003:19 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.1        | 0.40       | 1        | 04/23/202003:19 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 2.1        | 0.44       | 1        | 04/23/202003:19 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.1        | 0.40       | 1        | 04/23/202003:19 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.1        | 0.24       | 1        | 04/23/202003:19 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.1        | 0.92       | 1        | 04/23/202003:19 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.1        | 0.44       | 1        | 04/23/202003:19 | 2355-31-9   | N2    |
| PFBS      | ND                   | 1.8        | 0.20       | 1        | 04/23/202003:19 | 375-73-5    | N2    |
| PFPeS     | ND                   | 2.0        | 0.36       | 1        | 04/23/202003:19 | 2706-91-4   | N2    |
| PFHxS     | ND                   | 1.9        | 0.37       | 1        | 04/23/202003:19 | 355-46-4    | N2    |
| PFHpS     | ND                   | 2.0        | 0.46       | 1        | 04/23/202003:19 | 375-92-8    | N2    |
| PFOS      | ND                   | 1.9        | 0.39       | 1        | 04/23/202003:19 | 1763-23-1   | N2    |
| PFNS      | ND                   | 2.0        | 0.46       | 1        | 04/23/202003:19 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.0        | 0.32       | 1        | 04/23/202003:19 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 2.0        | 0.58       | 1        | 04/23/202003:19 | 757124-72-4 | N2    |
| 6:2FTS    | 21                   | 2.0        | 0.93       | 1        | 04/23/202003:19 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 2.0        | 0.76       | 1        | 04/23/202003:19 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |              |                        |               |
|--------------------|--------------|------------------------|---------------|
| Client's Sample ID | Trip Blank   | Date Extracted         | 04/21/2020    |
| Lab Sample ID      | 10515186021  | Total Amount Extracted | 240 mL        |
| Filename           | Q200422A_027 | ICAL ID                | 200421B01     |
| Matrix             | Water        | Starting CCal          | Q200422A_024  |
| Collected          | 04/14/2020   | Ending CCal            | QDATASET1_001 |
| Received           | 04/17/2020   | Method Blank Filename  | Q200422A_004  |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 21             | 18             | 86        | 50-150             | Pass      | 575260 |
| 13C5_PFPeA                     | 21             | 18             | 87        | 50-150             | Pass      | 429479 |
| 13C5_PFHxA                     | 21             | 19             | 89        | 50-150             | Pass      | 468721 |
| 13C4_PFHpA                     | 21             | 19             | 91        | 50-150             | Pass      | 477437 |
| 13C8_PFOA                      | 21             | 19             | 93        | 50-150             | Pass      | 549918 |
| 13C9_PFNA                      | 21             | 19             | 92        | 50-150             | Pass      | 586193 |
| 13C6_PFDA                      | 21             | 19             | 92        | 50-150             | Pass      | 466716 |
| 13C7_PFUdA                     | 21             | 19             | 93        | 50-150             | Pass      | 445063 |
| 13C2_PFDoA                     | 21             | 18             | 88        | 50-150             | Pass      | 458278 |
| 13C2_PFTeDA                    | 21             | 18             | 88        | 50-150             | Pass      | 343451 |
| d5-EtFOSAA                     | 21             | 17             | 81        | 50-150             | Pass      | 92370  |
| d3-MeFOSAA                     | 21             | 17             | 84        | 50-150             | Pass      | 78870  |
| 13C3_PFBS                      | 21             | 19             | 89        | 50-150             | Pass      | 329715 |
| 13C3_PFHxS                     | 21             | 19             | 90        | 50-150             | Pass      | 336459 |
| 13C8_PFOS                      | 21             | 18             | 84        | 50-150             | Pass      | 370115 |
| 13C8_PFOA                      | 21             | 16             | 75        | 50-150             | Pass      | 468158 |
| 13C2_4:2FTS                    | 21             | 20             | 95        | 50-150             | Pass      | 111813 |
| 13C2_6:2FTS                    | 21             | 19             | 90        | 50-150             | Pass      | 117148 |
| 13C2_8:2FTS                    | 21             | 19             | 92        | 50-150             | Pass      | 132724 |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 642369 | 361284 - 1083852 | 449854 - 1349561 | Pass      |
| 13C4_PFOS   | 413050 | 241967 - 725900  | 299472 - 898416  | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope DilutionBlank Analysis Summary**

|                |              |                        |              |
|----------------|--------------|------------------------|--------------|
| Lab Sample ID  | BLANK-78845  | Total Amount Extracted | 250 mL       |
| Filename       | Q200422A_004 | ICAL ID                | 200421B01    |
| Matrix         | Water        | Starting CCal          | Q200422A_003 |
| Date Extracted | 04/21/2020   | Ending CCal            | Q200422A_014 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed         | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|------------------|-------------|-------|
| PFBA      | ND                   | 2.0        | 0.29       | 1        | 04/22/2020 17:07 | 375-22-4    | N2    |
| PFPeA     | ND                   | 2.0        | 0.25       | 1        | 04/22/2020 17:07 | 2706-90-3   | N2    |
| PFHxA     | ND                   | 2.0        | 0.35       | 1        | 04/22/2020 17:07 | 307-24-4    | N2    |
| PFHpA     | ND                   | 2.0        | 0.42       | 1        | 04/22/2020 17:07 | 375-85-9    | N2    |
| PFOA      | ND                   | 2.0        | 0.41       | 1        | 04/22/2020 17:07 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.0        | 0.55       | 1        | 04/22/2020 17:07 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.0        | 0.64       | 1        | 04/22/2020 17:07 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.0        | 0.52       | 1        | 04/22/2020 17:07 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.0        | 0.38       | 1        | 04/22/2020 17:07 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 2.0        | 0.42       | 1        | 04/22/2020 17:07 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.0        | 0.38       | 1        | 04/22/2020 17:07 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.0        | 0.23       | 1        | 04/22/2020 17:07 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.0        | 0.88       | 1        | 04/22/2020 17:07 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.0        | 0.42       | 1        | 04/22/2020 17:07 | 2355-31-9   | N2    |
| PFBS      | ND                   | 1.8        | 0.19       | 1        | 04/22/2020 17:07 | 375-73-5    | N2    |
| PFPeS     | ND                   | 1.9        | 0.35       | 1        | 04/22/2020 17:07 | 2706-91-4   | N2    |
| PFHxS     | ND                   | 1.8        | 0.36       | 1        | 04/22/2020 17:07 | 355-46-4    | N2    |
| PFHpS     | ND                   | 1.9        | 0.44       | 1        | 04/22/2020 17:07 | 375-92-8    | N2    |
| PFOS      | ND                   | 1.8        | 0.37       | 1        | 04/22/2020 17:07 | 1763-23-1   | N2    |
| PFNS      | ND                   | 1.9        | 0.44       | 1        | 04/22/2020 17:07 | 68259-12-1  | N2    |
| PFDS      | ND                   | 1.9        | 0.31       | 1        | 04/22/2020 17:07 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 1.9        | 0.55       | 1        | 04/22/2020 17:07 | 757124-72-4 | N2    |
| 6:2FTS    | ND                   | 1.9        | 0.89       | 1        | 04/22/2020 17:07 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 1.9        | 0.73       | 1        | 04/22/2020 17:07 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope DilutionBlank Analysis Summary**

|                    |              |                        |              |
|--------------------|--------------|------------------------|--------------|
| Client's Sample ID | BLKNL        | Date Extracted         | 04/21/2020   |
| Lab Sample ID      | BLANK-78845  | Total Amount Extracted | 250 mL       |
| Filename           | Q200422A_004 | ICAL ID                | 200421B01    |
| Matrix             | Water        | Starting CCal          | Q200422A_003 |
| Collected          | 04/21/2020   | Ending CCal            | Q200422A_014 |
| Received           | 04/21/2020   | Method Blank Filename  | Q200422A_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 20             | 17             | 87        | 50-150             | Pass      | 576913 |
| 13C5_PFPeA                     | 20             | 18             | 89        | 50-150             | Pass      | 428430 |
| 13C5_PFHxA                     | 20             | 19             | 94        | 50-150             | Pass      | 488493 |
| 13C4_PFHpA                     | 20             | 19             | 93        | 50-150             | Pass      | 480762 |
| 13C8_PFOA                      | 20             | 19             | 97        | 50-150             | Pass      | 565807 |
| 13C9_PFNA                      | 20             | 19             | 94        | 50-150             | Pass      | 598452 |
| 13C6_PFDA                      | 20             | 20             | 98        | 50-150             | Pass      | 498175 |
| 13C7_PFUdA                     | 20             | 19             | 97        | 50-150             | Pass      | 463419 |
| 13C2_PFDoA                     | 20             | 20             | 99        | 50-150             | Pass      | 512777 |
| 13C2_PFTeDA                    | 20             | 18             | 89        | 50-150             | Pass      | 345306 |
| d5-EtFOSAA                     | 20             | 17             | 84        | 50-150             | Pass      | 96716  |
| d3-MeFOSAA                     | 20             | 17             | 85        | 50-150             | Pass      | 80394  |
| 13C3_PFBS                      | 20             | 18             | 92        | 50-150             | Pass      | 334158 |
| 13C3_PFHxS                     | 20             | 19             | 95        | 50-150             | Pass      | 353843 |
| 13C8_PFOS                      | 20             | 19             | 94        | 50-150             | Pass      | 411793 |
| 13C8_PFOA                      | 20             | 16             | 78        | 50-150             | Pass      | 490192 |
| 13C2_4:2FTS                    | 20             | 20             | 98        | 50-150             | Pass      | 113513 |
| 13C2_6:2FTS                    | 20             | 19             | 95        | 50-150             | Pass      | 122549 |
| 13C2_8:2FTS                    | 20             | 20             | 102       | 50-150             | Pass      | 146699 |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 631363 | 361284 - 1083852 | 437712 - 1313135 | Pass      |
| 13C4_PFOS   | 413512 | 241967 - 725900  | 281179 - 843536  | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.





**PFAS by Isotope DilutionBlank Analysis Summary**

|                |              |                        |              |
|----------------|--------------|------------------------|--------------|
| Lab Sample ID  | BLANK-78934  | Total Amount Extracted | 248 mL       |
| Filename       | Q200501B_004 | ICAL ID                | 200501A01    |
| Matrix         | Water        | Starting CCal          | Q200501B_003 |
| Date Extracted | 04/28/2020   | Ending CCal            | Q200501B_014 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed         | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|------------------|-------------|-------|
| PFBA      | ND                   | 2.0        | 0.29       | 1        | 05/01/2020 16:10 | 375-22-4    | N2    |
| PFPeA     | ND                   | 2.0        | 0.25       | 1        | 05/01/2020 16:10 | 2706-90-3   | N2    |
| PFHxA     | ND                   | 2.0        | 0.35       | 1        | 05/01/2020 16:10 | 307-24-4    | N2    |
| PFHpA     | ND                   | 2.0        | 0.43       | 1        | 05/01/2020 16:10 | 375-85-9    | N2    |
| PFOA      | ND                   | 2.0        | 0.41       | 1        | 05/01/2020 16:10 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.0        | 0.56       | 1        | 05/01/2020 16:10 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.0        | 0.65       | 1        | 05/01/2020 16:10 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.0        | 0.53       | 1        | 05/01/2020 16:10 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.0        | 0.39       | 1        | 05/01/2020 16:10 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 2.0        | 0.43       | 1        | 05/01/2020 16:10 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.0        | 0.39       | 1        | 05/01/2020 16:10 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.0        | 0.23       | 1        | 05/01/2020 16:10 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.0        | 0.89       | 1        | 05/01/2020 16:10 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.0        | 0.43       | 1        | 05/01/2020 16:10 | 2355-31-9   | N2    |
| PFBS      | ND                   | 1.8        | 0.19       | 1        | 05/01/2020 16:10 | 375-73-5    | N2    |
| PFPeS     | ND                   | 1.9        | 0.35       | 1        | 05/01/2020 16:10 | 2706-91-4   | N2    |
| PFHxS     | ND                   | 1.8        | 0.36       | 1        | 05/01/2020 16:10 | 355-46-4    | N2    |
| PFHpS     | ND                   | 1.9        | 0.44       | 1        | 05/01/2020 16:10 | 375-92-8    | N2    |
| PFOS      | ND                   | 1.9        | 0.38       | 1        | 05/01/2020 16:10 | 1763-23-1   | N2    |
| PFNS      | ND                   | 1.9        | 0.44       | 1        | 05/01/2020 16:10 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.0        | 0.31       | 1        | 05/01/2020 16:10 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 1.9        | 0.56       | 1        | 05/01/2020 16:10 | 757124-72-4 | N2    |
| 6:2FTS    | ND                   | 1.9        | 0.90       | 1        | 05/01/2020 16:10 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 1.9        | 0.74       | 1        | 05/01/2020 16:10 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope DilutionBlank Analysis Summary**

|                    |              |                        |              |
|--------------------|--------------|------------------------|--------------|
| Client's Sample ID | BLKOT        | Date Extracted         | 04/28/2020   |
| Lab Sample ID      | BLANK-78934  | Total Amount Extracted | 248 mL       |
| Filename           | Q200501B_004 | ICAL ID                | 200501A01    |
| Matrix             | Water        | Starting CCal          | Q200501B_003 |
| Collected          | 04/24/2020   | Ending CCal            | Q200501B_014 |
| Received           | 04/24/2020   | Method Blank Filename  | Q200501B_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 20             | 21             | 102       | 50-150             | Pass      | 802549 |
| 13C5_PFPeA                     | 20             | 20             | 99        | 50-150             | Pass      | 619885 |
| 13C5_PFHxA                     | 20             | 20             | 98        | 50-150             | Pass      | 678991 |
| 13C4_PFHpA                     | 20             | 19             | 93        | 50-150             | Pass      | 580016 |
| 13C8_PFOA                      | 20             | 17             | 86        | 50-150             | Pass      | 593821 |
| 13C9_PFNA                      | 20             | 20             | 98        | 50-150             | Pass      | 671602 |
| 13C6_PFDA                      | 20             | 19             | 95        | 50-150             | Pass      | 524486 |
| 13C7_PFUdA                     | 20             | 19             | 92        | 50-150             | Pass      | 467248 |
| 13C2_PFDoA                     | 20             | 18             | 91        | 50-150             | Pass      | 460409 |
| 13C2_PFTeDA                    | 20             | 17             | 83        | 50-150             | Pass      | 363169 |
| d5-EtFOSAA                     | 20             | 18             | 87        | 50-150             | Pass      | 111464 |
| d3-MeFOSAA                     | 20             | 16             | 80        | 50-150             | Pass      | 86387  |
| 13C3_PFBS                      | 20             | 19             | 92        | 50-150             | Pass      | 543075 |
| 13C3_PFHxS                     | 20             | 20             | 99        | 50-150             | Pass      | 533071 |
| 13C8_PFOS                      | 20             | 18             | 91        | 50-150             | Pass      | 598349 |
| 13C8_PFOA                      | 20             | 14             | 68        | 50-150             | Pass      | 765063 |
| 13C2_4:2FTS                    | 20             | 14             | 70        | 50-150             | Pass      | 103713 |
| 13C2_6:2FTS                    | 20             | 18             | 89        | 50-150             | Pass      | 114156 |
| 13C2_8:2FTS                    | 20             | 14             | 71        | 50-150             | Pass      | 92880  |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 752476 | 394529 - 1183586 | 483327 - 1449981 | Pass      |
| 13C4_PFOS   | 628997 | 343349 - 1030047 | 396036 - 1188109 | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution Laboratory Control Sample (LCS)**

|                        |              |             |                  |
|------------------------|--------------|-------------|------------------|
| LCS Lab Sample ID      | LCS-78846    | Matrix      | Water            |
| LCS Filename           | Q200422A_005 | Dilution    | 1                |
| Total Amount Extracted | 250mL        | Extracted   | 04/21/2020       |
| ICAL ID                | 200421B01    | Analyzed    | 04/22/2020 17:34 |
| Start CCal Filename    | Q200422A_003 | Injected By | PY               |
| End CCal Filename      | Q200422A_014 |             |                  |
| Method Blank Filename  | Q200422A_004 |             |                  |

| Compound  | Spiked (ng/L) | Recovered (ng/L) | Recovery % | Limits       |
|-----------|---------------|------------------|------------|--------------|
| PFBA      | 20            | 20               | 101        | 70.0 - 130.0 |
| PFPeA     | 20            | 19               | 97         | 70.0 - 130.0 |
| PFHxA     | 20            | 19               | 94         | 70.0 - 130.0 |
| PFHpA     | 20            | 20               | 102        | 70.0 - 130.0 |
| PFOA      | 20            | 21               | 106        | 70.0 - 130.0 |
| PFNA      | 20            | 18               | 91         | 70.0 - 130.0 |
| PFDA      | 20            | 18               | 88         | 70.0 - 130.0 |
| PFUnA     | 20            | 20               | 98         | 70.0 - 130.0 |
| PFDoA     | 20            | 20               | 101        | 70.0 - 130.0 |
| PFTTrDA   | 20            | 20               | 101        | 70.0 - 130.0 |
| PFTeDA    | 20            | 18               | 92         | 70.0 - 130.0 |
| PFOSA     | 20            | 20               | 99         | 70.0 - 130.0 |
| N-EtFOSAA | 20            | 19               | 93         | 70.0 - 130.0 |
| N-MeFOSAA | 20            | 20               | 99         | 70.0 - 130.0 |
| PFBS      | 18            | 17               | 97         | 70.0 - 130.0 |
| PFPeS     | 19            | 18               | 97         | 70.0 - 130.0 |
| PFHxS     | 18            | 17               | 96         | 70.0 - 130.0 |
| PFHpS     | 19            | 18               | 97         | 70.0 - 130.0 |
| PFOS      | 18            | 18               | 96         | 70.0 - 130.0 |
| PFNS      | 19            | 18               | 95         | 70.0 - 130.0 |
| PFDS      | 19            | 18               | 94         | 70.0 - 130.0 |
| 4:2FTS    | 19            | 17               | 92         | 70.0 - 130.0 |
| 6:2FTS    | 19            | 18               | 96         | 70.0 - 130.0 |
| 8:2FTS    | 19            | 18               | 95         | 70.0 - 130.0 |



**PFAS by Isotope Dilution Laboratory Control Sample (LCS)**

LCS Lab Sample ID      LCS-78846  
 LCS Filename            Q200422A\_005

Matrix      Water

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 20             | 18             | 92        | 50-150             | Pass      | 555796 |
| 13C5_PFPeA                     | 20             | 18             | 92        | 50-150             | Pass      | 410085 |
| 13C5_PFHxA                     | 20             | 19             | 93        | 50-150             | Pass      | 441964 |
| 13C4_PFHpA                     | 20             | 18             | 92        | 50-150             | Pass      | 435617 |
| 13C8_PFOA                      | 20             | 18             | 91        | 50-150             | Pass      | 486831 |
| 13C9_PFNA                      | 20             | 19             | 94        | 50-150             | Pass      | 560708 |
| 13C6_PFDA                      | 20             | 20             | 99        | 50-150             | Pass      | 472874 |
| 13C7_PFUdA                     | 20             | 20             | 100       | 50-150             | Pass      | 449723 |
| 13C2_PFDoA                     | 20             | 19             | 97        | 50-150             | Pass      | 474789 |
| 13C2_PFTeDA                    | 20             | 20             | 98        | 50-150             | Pass      | 359897 |
| d5-EtFOSAA                     | 20             | 17             | 87        | 50-150             | Pass      | 93791  |
| d3-MeFOSAA                     | 20             | 17             | 84        | 50-150             | Pass      | 74019  |
| 13C3_PFBs                      | 20             | 19             | 95        | 50-150             | Pass      | 319018 |
| 13C3_PFHxS                     | 20             | 19             | 95        | 50-150             | Pass      | 332417 |
| 13C8_PFOS                      | 20             | 19             | 93        | 50-150             | Pass      | 384595 |
| 13C8_PFOA                      | 20             | 16             | 80        | 50-150             | Pass      | 471913 |
| 13C2_4:2Fts                    | 20             | 20             | 100       | 50-150             | Pass      | 106016 |
| 13C2_6:2Fts                    | 20             | 19             | 94        | 50-150             | Pass      | 110474 |
| 13C2_8:2Fts                    | 20             | 19             | 93        | 50-150             | Pass      | 125599 |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 580078 | 361284 - 1083852 | 437712 - 1313135 | Pass      |
| 13C4_PFOS   | 388209 | 241967 - 725900  | 281179 - 843536  | Pass      |



**PFAS by Isotope Dilution Laboratory Control Sample (LCS)**

|                        |              |             |                  |
|------------------------|--------------|-------------|------------------|
| LCS Lab Sample ID      | LCS-78935    | Matrix      | Water            |
| LCS Filename           | Q200501B_005 | Dilution    | 1                |
| Total Amount Extracted | 250mL        | Extracted   | 04/28/2020       |
| ICAL ID                | 200501A01    | Analyzed    | 05/01/2020 16:36 |
| Start CCal Filename    | Q200501B_003 | Injected By | PY               |
| End CCal Filename      | Q200501B_014 |             |                  |
| Method Blank Filename  | Q200501B_004 |             |                  |

| Compound  | Spiked (ng/L) | Recovered (ng/L) | Recovery % | Limits       |
|-----------|---------------|------------------|------------|--------------|
| PFBA      | 20            | 19               | 97         | 70.0 - 130.0 |
| PFPeA     | 20            | 19               | 97         | 70.0 - 130.0 |
| PFHxA     | 20            | 19               | 93         | 70.0 - 130.0 |
| PFHpA     | 20            | 19               | 93         | 70.0 - 130.0 |
| PFOA      | 20            | 19               | 93         | 70.0 - 130.0 |
| PFNA      | 20            | 18               | 92         | 70.0 - 130.0 |
| PFDA      | 20            | 20               | 98         | 70.0 - 130.0 |
| PFUnA     | 20            | 17               | 87         | 70.0 - 130.0 |
| PFDoA     | 20            | 20               | 98         | 70.0 - 130.0 |
| PFTTrDA   | 20            | 17               | 87         | 70.0 - 130.0 |
| PFTeDA    | 20            | 20               | 102        | 70.0 - 130.0 |
| PFOSA     | 20            | 19               | 96         | 70.0 - 130.0 |
| N-EtFOSAA | 20            | 18               | 92         | 70.0 - 130.0 |
| N-MeFOSAA | 20            | 19               | 96         | 70.0 - 130.0 |
| PFBS      | 18            | 17               | 95         | 70.0 - 130.0 |
| PFPeS     | 19            | 17               | 90         | 70.0 - 130.0 |
| PFHxS     | 18            | 18               | 96         | 70.0 - 130.0 |
| PFHpS     | 19            | 20               | 106        | 70.0 - 130.0 |
| PFOS      | 19            | 18               | 95         | 70.0 - 130.0 |
| PFNS      | 19            | 19               | 99         | 70.0 - 130.0 |
| PFDS      | 19            | 19               | 98         | 70.0 - 130.0 |
| 4:2FTS    | 19            | 18               | 95         | 70.0 - 130.0 |
| 6:2FTS    | 19            | 18               | 95         | 70.0 - 130.0 |
| 8:2FTS    | 19            | 18               | 96         | 70.0 - 130.0 |



**PFAS by Isotope Dilution Laboratory Control Sample (LCS)**

LCS Lab Sample ID      LCS-78935  
 LCS Filename            Q200501B\_005

Matrix      Water

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 20             | 23             | 113       | 50-150             | Pass      | 796091 |
| 13C5_PFPeA                     | 20             | 21             | 106       | 50-150             | Pass      | 596799 |
| 13C5_PFHxA                     | 20             | 22             | 111       | 50-150             | Pass      | 684513 |
| 13C4_PFHpA                     | 20             | 21             | 105       | 50-150             | Pass      | 585456 |
| 13C8_PFOA                      | 20             | 19             | 97        | 50-150             | Pass      | 596330 |
| 13C9_PFNA                      | 20             | 20             | 100       | 50-150             | Pass      | 659539 |
| 13C6_PFDA                      | 20             | 19             | 93        | 50-150             | Pass      | 491300 |
| 13C7_PFUdA                     | 20             | 20             | 100       | 50-150             | Pass      | 486253 |
| 13C2_PFDoA                     | 20             | 18             | 90        | 50-150             | Pass      | 435634 |
| 13C2_PFTeDA                    | 20             | 15             | 76        | 50-150             | Pass      | 321237 |
| d5-EtFOSAA                     | 20             | 18             | 92        | 50-150             | Pass      | 113140 |
| d3-MeFOSAA                     | 20             | 17             | 87        | 50-150             | Pass      | 89676  |
| 13C3_PFBs                      | 20             | 21             | 103       | 50-150             | Pass      | 544425 |
| 13C3_PFHxS                     | 20             | 20             | 100       | 50-150             | Pass      | 516654 |
| 13C8_PFOS                      | 20             | 19             | 94        | 50-150             | Pass      | 594172 |
| 13C8_PFOA                      | 20             | 16             | 81        | 50-150             | Pass      | 868148 |
| 13C2_4:2FTS                    | 20             | 15             | 73        | 50-150             | Pass      | 96502  |
| 13C2_6:2FTS                    | 20             | 16             | 80        | 50-150             | Pass      | 91059  |
| 13C2_8:2FTS                    | 20             | 15             | 75        | 50-150             | Pass      | 93712  |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 671769 | 394529 - 1183586 | 483327 - 1449981 | Pass      |
| 13C4_PFOS   | 602680 | 343349 - 1030047 | 396036 - 1188109 | Pass      |



**PFAS by Isotope Dilution Laboratory Control Sample Duplicate (LCSD)**

|                        |              |              |                  |
|------------------------|--------------|--------------|------------------|
| LCSD Lab Sample ID     | LCSD-78847   | LCS Filename | Q200422A_005     |
| LCSD Filename          | Q200422A_006 | Matrix       | Water            |
| Total Amount Extracted | 255mL        | Dilution     | 1                |
| ICAL ID                | 200421B01    | Extracted    | 04/21/2020       |
| Start CCal Filename    | Q200422A_003 | Analyzed     | 04/22/2020 18:00 |
| End CCal Filename      | Q200422A_014 | Injected By  | PY               |
| Method Blank Filename  | Q200422A_004 |              |                  |

| Compound  | Spiked<br>(ng/L) | Recovered<br>(ng/L) | Recovery<br>% | Recovery<br>Limits | RPD<br>% |
|-----------|------------------|---------------------|---------------|--------------------|----------|
| PFBA      | 20               | 19                  | 99            | 70.0 - 130.0       | 4        |
| PFPeA     | 20               | 19                  | 95            | 70.0 - 130.0       | 4        |
| PFHxA     | 20               | 20                  | 101           | 70.0 - 130.0       | 4        |
| PFHpA     | 20               | 18                  | 93            | 70.0 - 130.0       | 11       |
| PFOA      | 20               | 19                  | 95            | 70.0 - 130.0       | 13       |
| PFNA      | 20               | 19                  | 97            | 70.0 - 130.0       | 5        |
| PFDA      | 20               | 21                  | 106           | 70.0 - 130.0       | 16       |
| PFUnA     | 20               | 18                  | 91            | 70.0 - 130.0       | 10       |
| PFDoA     | 20               | 20                  | 101           | 70.0 - 130.0       | 2        |
| PFTTrDA   | 20               | 19                  | 98            | 70.0 - 130.0       | 4        |
| PFTeDA    | 20               | 19                  | 96            | 70.0 - 130.0       | 3        |
| PFOSA     | 20               | 19                  | 98            | 70.0 - 130.0       | 3        |
| N-EtFOSAA | 20               | 17                  | 85            | 70.0 - 130.0       | 11       |
| N-MeFOSAA | 20               | 17                  | 88            | 70.0 - 130.0       | 14       |
| PFBS      | 17               | 16                  | 93            | 70.0 - 130.0       | 6        |
| PFPeS     | 18               | 18                  | 96            | 70.0 - 130.0       | 3        |
| PFHxS     | 18               | 17                  | 97            | 70.0 - 130.0       | 1        |
| PFHpS     | 19               | 17                  | 94            | 70.0 - 130.0       | 5        |
| PFOS      | 18               | 17                  | 93            | 70.0 - 130.0       | 4        |
| PFNS      | 19               | 18                  | 97            | 70.0 - 130.0       | 0        |
| PFDS      | 19               | 18                  | 96            | 70.0 - 130.0       | 0        |
| 4:2FTS    | 18               | 17                  | 92            | 70.0 - 130.0       | 2        |
| 6:2FTS    | 19               | 18                  | 95            | 70.0 - 130.0       | 2        |
| 8:2FTS    | 19               | 17                  | 90            | 70.0 - 130.0       | 8        |



**PFAS by Isotope Dilution Laboratory Control Sample Duplicate (LCSD)**

LCSD Lab Sample ID      LCSD-78847      LCS Filename      Q200422A\_005  
 LCSD Filename      Q200422A\_006      Matrix      Water

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 20             | 18             | 91        | 50-150             | Pass      | 547688 |
| 13C5_PFPeA                     | 20             | 18             | 92        | 50-150             | Pass      | 404075 |
| 13C5_PFHxA                     | 20             | 18             | 93        | 50-150             | Pass      | 437071 |
| 13C4_PFHpA                     | 20             | 19             | 98        | 50-150             | Pass      | 457700 |
| 13C8_PFOA                      | 20             | 19             | 96        | 50-150             | Pass      | 508904 |
| 13C9_PFNA                      | 20             | 18             | 93        | 50-150             | Pass      | 555212 |
| 13C6_PFDA                      | 20             | 17             | 89        | 50-150             | Pass      | 426799 |
| 13C7_PFUdA                     | 20             | 19             | 97        | 50-150             | Pass      | 436040 |
| 13C2_PFDoA                     | 20             | 18             | 94        | 50-150             | Pass      | 460485 |
| 13C2_PFTeDA                    | 20             | 18             | 93        | 50-150             | Pass      | 338440 |
| d5-EtFOSAA                     | 20             | 16             | 81        | 50-150             | Pass      | 87036  |
| d3-MeFOSAA                     | 20             | 17             | 88        | 50-150             | Pass      | 77734  |
| 13C3_PFBs                      | 20             | 19             | 95        | 50-150             | Pass      | 314001 |
| 13C3_PFHxS                     | 20             | 18             | 92        | 50-150             | Pass      | 321879 |
| 13C8_PFOS                      | 20             | 18             | 91        | 50-150             | Pass      | 374268 |
| 13C8_PFOA                      | 20             | 16             | 83        | 50-150             | Pass      | 488195 |
| 13C2_4:2FTS                    | 20             | 19             | 96        | 50-150             | Pass      | 101144 |
| 13C2_6:2FTS                    | 20             | 18             | 93        | 50-150             | Pass      | 108203 |
| 13C2_8:2FTS                    | 20             | 19             | 96        | 50-150             | Pass      | 130132 |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 572151 | 361284 - 1083852 | 437712 - 1313135 | Pass      |
| 13C4_PFOS   | 387964 | 241967 - 725900  | 281179 - 843536  | Pass      |





**PFAS by Isotope Dilution Laboratory Control Sample Duplicate (LCSD)**

|                        |              |              |                  |
|------------------------|--------------|--------------|------------------|
| LCSD Lab Sample ID     | LCSD-78936   | LCS Filename | Q200501B_005     |
| LCSD Filename          | Q200501B_006 | Matrix       | Water            |
| Total Amount Extracted | 254mL        | Dilution     | 1                |
| ICAL ID                | 200501A01    | Extracted    | 04/28/2020       |
| Start CCal Filename    | Q200501B_003 | Analyzed     | 05/01/2020 17:03 |
| End CCal Filename      | Q200501B_014 | Injected By  | PY               |
| Method Blank Filename  | Q200501B_004 |              |                  |

| Compound  | Spiked<br>(ng/L) | Recovered<br>(ng/L) | Recovery<br>% | Recovery<br>Limits | RPD<br>% |
|-----------|------------------|---------------------|---------------|--------------------|----------|
| PFBA      | 20               | 19                  | 95            | 70.0 - 130.0       | 4        |
| PFPeA     | 20               | 18                  | 93            | 70.0 - 130.0       | 6        |
| PFHxA     | 20               | 18                  | 93            | 70.0 - 130.0       | 2        |
| PFHpA     | 20               | 18                  | 90            | 70.0 - 130.0       | 5        |
| PFOA      | 20               | 18                  | 93            | 70.0 - 130.0       | 1        |
| PFNA      | 20               | 19                  | 98            | 70.0 - 130.0       | 5        |
| PFDA      | 20               | 17                  | 87            | 70.0 - 130.0       | 14       |
| PFUnA     | 20               | 19                  | 97            | 70.0 - 130.0       | 10       |
| PFDoA     | 20               | 19                  | 97            | 70.0 - 130.0       | 3        |
| PFTTrDA   | 20               | 18                  | 90            | 70.0 - 130.0       | 3        |
| PFTeDA    | 20               | 19                  | 96            | 70.0 - 130.0       | 8        |
| PFOSA     | 20               | 19                  | 95            | 70.0 - 130.0       | 3        |
| N-EtFOSAA | 20               | 20                  | 103           | 70.0 - 130.0       | 9        |
| N-MeFOSAA | 20               | 17                  | 87            | 70.0 - 130.0       | 12       |
| PFBS      | 17               | 17                  | 95            | 70.0 - 130.0       | 1        |
| PFPeS     | 19               | 17                  | 92            | 70.0 - 130.0       | 1        |
| PFHxS     | 18               | 16                  | 92            | 70.0 - 130.0       | 6        |
| PFHpS     | 19               | 18                  | 98            | 70.0 - 130.0       | 10       |
| PFOS      | 18               | 17                  | 94            | 70.0 - 130.0       | 3        |
| PFNS      | 19               | 18                  | 98            | 70.0 - 130.0       | 3        |
| PFDS      | 19               | 17                  | 91            | 70.0 - 130.0       | 8        |
| 4:2FTS    | 18               | 16                  | 89            | 70.0 - 130.0       | 8        |
| 6:2FTS    | 19               | 18                  | 96            | 70.0 - 130.0       | 0        |
| 8:2FTS    | 19               | 18                  | 95            | 70.0 - 130.0       | 3        |



**PFAS by Isotope Dilution Laboratory Control Sample Duplicate (LCSD)**

LCSD Lab Sample ID      LCS-78936      LCS Filename      Q200501B\_005  
 LCSD Filename      Q200501B\_006      Matrix      Water

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 20             | 22             | 113       | 50-150             | Pass      | 734537 |
| 13C5_PFPeA                     | 20             | 21             | 106       | 50-150             | Pass      | 551418 |
| 13C5_PFHxA                     | 20             | 21             | 104       | 50-150             | Pass      | 598320 |
| 13C4_PFHpA                     | 20             | 21             | 106       | 50-150             | Pass      | 550624 |
| 13C8_PFOA                      | 20             | 18             | 93        | 50-150             | Pass      | 532542 |
| 13C9_PFNA                      | 20             | 18             | 89        | 50-150             | Pass      | 546497 |
| 13C6_PFDA                      | 20             | 17             | 88        | 50-150             | Pass      | 432184 |
| 13C7_PFUdA                     | 20             | 18             | 92        | 50-150             | Pass      | 417329 |
| 13C2_PFDoA                     | 20             | 17             | 84        | 50-150             | Pass      | 379129 |
| 13C2_PFTeDA                    | 20             | 16             | 79        | 50-150             | Pass      | 308085 |
| d5-EtFOSAA                     | 20             | 16             | 81        | 50-150             | Pass      | 91857  |
| d3-MeFOSAA                     | 20             | 18             | 89        | 50-150             | Pass      | 85723  |
| 13C3_PFBs                      | 20             | 19             | 97        | 50-150             | Pass      | 474709 |
| 13C3_PFHxS                     | 20             | 19             | 96        | 50-150             | Pass      | 462654 |
| 13C8_PFOS                      | 20             | 18             | 91        | 50-150             | Pass      | 537396 |
| 13C8_PFOA                      | 20             | 15             | 77        | 50-150             | Pass      | 765628 |
| 13C2_4:2FTS                    | 20             | 15             | 74        | 50-150             | Pass      | 90044  |
| 13C2_6:2FTS                    | 20             | 16             | 81        | 50-150             | Pass      | 85916  |
| 13C2_8:2FTS                    | 20             | 14             | 72        | 50-150             | Pass      | 82990  |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 624699 | 394529 - 1183586 | 483327 - 1449981 | Pass      |
| 13C4_PFOS   | 560051 | 343349 - 1030047 | 396036 - 1188109 | Pass      |



**PFAS by Isotope Dilution Matrix Spike Sample (MS)**

|                        |                |             |                   |
|------------------------|----------------|-------------|-------------------|
| MS Lab Sample ID       | 10515186011-MS | Matrix      | Non_Potable_Water |
| MS Filename            | Q200422A_028   | Dilution    | 1                 |
| Total Amount Extracted | 234mL          | Extracted   | 04/21/2020        |
| ICAL ID                | 200421B01      | Analyzed    | 04/23/2020 03:45  |
| Start CCal Filename    | Q200422A_024   | Injected By | PY                |
| End CCal Filename      | QDATASET1_001  |             |                   |
| Method Blank Filename  | Q200422A_004   |             |                   |

| Compound  | Spike (ng/L) | Sample (ng/L) | Recovered (ng/L) | Recovery % | Limits       | Flags |
|-----------|--------------|---------------|------------------|------------|--------------|-------|
| PFBA      | 21           | 10            | 30               | 92         | 70.0 - 130.0 |       |
| PFPeA     | 21           | 17            | 35               | 85         | 70.0 - 130.0 |       |
| PFHxA     | 21           | 26            | 43               | 79         | 70.0 - 130.0 |       |
| PFHpA     | 21           | 26            | 43               | 75         | 70.0 - 130.0 |       |
| PFOA      | 21           | 19            | 37               | 84         | 70.0 - 130.0 |       |
| PFNA      | 21           | 0             | 21               | 96         | 70.0 - 130.0 |       |
| PFDA      | 21           | 0             | 20               | 91         | 70.0 - 130.0 |       |
| PFUnA     | 21           | 0             | 20               | 95         | 70.0 - 130.0 |       |
| PFDoA     | 21           | 0             | 20               | 92         | 70.0 - 130.0 |       |
| PFTTrDA   | 21           | 0             | 20               | 93         | 70.0 - 130.0 |       |
| PFTeDA    | 21           | 0             | 19               | 91         | 70.0 - 130.0 |       |
| PFOSA     | 21           | 0             | 20               | 95         | 70.0 - 130.0 |       |
| N-EtFOSAA | 21           | 0             | 19               | 89         | 70.0 - 130.0 |       |
| N-MeFOSAA | 21           | 0             | 21               | 97         | 70.0 - 130.0 |       |
| PFBS      | 19           | 4.3           | 22               | 93         | 70.0 - 130.0 |       |
| PFPeS     | 20           | 0             | 19               | 95         | 70.0 - 130.0 |       |
| PFHxS     | 19           | 0             | 20               | 104        | 70.0 - 130.0 |       |
| PFHpS     | 20           | 0             | 19               | 95         | 70.0 - 130.0 |       |
| PFOS      | 20           | 0             | 19               | 94         | 70.0 - 130.0 |       |
| PFNS      | 21           | 0             | 19               | 90         | 70.0 - 130.0 |       |
| PFDS      | 21           | 0             | 19               | 89         | 70.0 - 130.0 |       |
| 4:2FTS    | 21           | 0             | 19               | 89         | 70.0 - 130.0 |       |
| 6:2FTS    | 21           | 120           | 370              | 1162       | 70.0 - 130.0 | RD    |
| 8:2FTS    | 21           | 0             | 20               | 93         | 70.0 - 130.0 |       |



**PFAS by Isotope Dilution Matrix Spike Sample (MS)**

| Compound | Spike (ng/L) | Sample (ng/L) | Recovered (ng/L) | Recovery % | Limits | Flags |
|----------|--------------|---------------|------------------|------------|--------|-------|
|----------|--------------|---------------|------------------|------------|--------|-------|

MS Lab Sample ID 10515186011-MS  
 MS Filename Q200422A\_028 Matrix Non\_Potable\_Water

| Internal Standards Compound | Known Conc. | Conc. Found | %Recovery | Recovery Limits | Pass/Fail | Area   |
|-----------------------------|-------------|-------------|-----------|-----------------|-----------|--------|
| 13C4_PFBA                   | 21          | 18          | 86        | 50-150          | Pass      | 558166 |
| 13C5_PFPeA                  | 21          | 18          | 86        | 50-150          | Pass      | 405741 |
| 13C5_PFHxA                  | 21          | 19          | 90        | 50-150          | Pass      | 455883 |
| 13C4_PFHpA                  | 21          | 20          | 92        | 50-150          | Pass      | 469269 |
| 13C8_PFOA                   | 21          | 18          | 86        | 50-150          | Pass      | 493241 |
| 13C9_PFNA                   | 21          | 20          | 92        | 50-150          | Pass      | 552882 |
| 13C6_PFDA                   | 21          | 20          | 96        | 50-150          | Pass      | 463412 |
| 13C7_PFUdA                  | 21          | 20          | 95        | 50-150          | Pass      | 432746 |
| 13C2_PFDoA                  | 21          | 19          | 91        | 50-150          | Pass      | 447268 |
| 13C2_PFTeDA                 | 21          | 20          | 91        | 50-150          | Pass      | 338674 |
| d5-EtFOSAA                  | 21          | 18          | 84        | 50-150          | Pass      | 91850  |
| d3-MeFOSAA                  | 21          | 20          | 94        | 50-150          | Pass      | 84362  |
| 13C3_PFBS                   | 21          | 19          | 88        | 50-150          | Pass      | 314558 |
| 13C3_PFHxS                  | 21          | 19          | 89        | 50-150          | Pass      | 314860 |
| 13C8_PFOS                   | 21          | 18          | 86        | 50-150          | Pass      | 360260 |
| 13C8_PFOA                   | 21          | 18          | 85        | 50-150          | Pass      | 506826 |
| 13C2_4:2FTS                 | 21          | 28          | 133       | 50-150          | Pass      | 151523 |
| 13C2_6:2FTS                 | 21          | 18          | 82        | 50-150          | Pass      | 23756  |
| 13C2_8:2FTS                 | 21          | 20          | 92        | 50-150          | Pass      | 126644 |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 619552 | 361284 - 1083852 | 449854 - 1349561 | Pass      |
| 13C4_PFOS   | 392976 | 241967 - 725900  | 299472 - 898416  | Pass      |

**Report Prepared for:**

Joshua Schuyler  
ATC-MI  
2650 Horizon Drive SE  
Grand Rapids MI 49546

**REPORT OF  
LABORATORY  
ANALYSIS  
FOR PFAAs**

**Report Information:**

**Pace Project #: 10515804**  
**Sample Receipt Date: 04/24/2020**  
**Client Project #: NPDAX19001 Detroit Axel**  
**Client Sub PO #: 10005**  
**State Cert #: 2926.01**

**Invoicing & Reporting Options:**

The report provided has been invoiced as a Level 2 PFAA Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Kirsten Hogberg, your Pace Project Manager.

**This report has been reviewed by:**



May 06, 2020

Kirsten Hogberg, Project Manager  
(612) 607-6407  
(612) 607-6444 (fax)  
kirsten.hogberg@pacelabs.com

**Report Prepared Date:**

May 5, 2020



**Report of Laboratory Analysis**

This report should not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

The results relate only to the samples included in this report.

## **DISCUSSION**

This report presents the results from the analyses performed on six samples, a matrix spike, and a duplicate submitted by a representative of ATC-MI. The samples were analyzed for twenty-four perfluorinated compounds using an isotope dilution based on DoD QSM 5.1.1. Reporting limits were set to reporting limits.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank was free of the target perfluorinated compounds at the reporting limits. This indicates that the sample processing procedures did not significantly contribute to the analyte content determined for the sample material.

Laboratory spike samples and a matrix spike sample were also prepared with the sample batch using clean reference matrix or sample material that had been fortified with native standards. The recovery results were within the method limits. The RPDs (relative percent differences) between one laboratory spike and its duplicate were within the method limits. These spikes indicate that extraction performed as expected.

Both of the injection internal standards (13C4\_PFOA and 13C4\_PFOS) pass for each analysis in the batch verifying that the instrument detector is working as expected.

Diminished internal surrogate standard (IS) recovery (outside the suggested limits) were present in sample material, however, the use of the isotope dilution method generally precludes any adverse impact on those individual native compounds that have a directly associated standard.

It should be noted that Pace Analytical has not yet completed the certification process for all analytes in this method. Therefore, the results have been marked "N2" as qualified.

## Minnesota Laboratory Certifications

| Authority       | Certificate #  | Authority        | Certificate # |
|-----------------|----------------|------------------|---------------|
| A2LA            | 2926.01        | Minnesota - Pet  | 1240          |
| Alabama         | 40770          | Mississippi      | MN00064       |
| Alaska - DW     | MN00064        | Missouri - DW    | 10100         |
| Alaska - UST    | 17-009         | Montana          | CERT0092      |
| Arizona         | AZ0014         | Nebraska         | NE-OS-18-06   |
| Arkansas - DW   | MN00064        | Nevada           | MN00064       |
| Arkansas - WW   | 88-0680        | New Hampshire    | 2081          |
| CNMI Saipan     | MP0003         | New Jersey (NE)  | MN002         |
| California      | 2929           | New York         | 11647         |
| Colorado        | MN00064        | North Carolina - | 27700         |
| Connecticut     | PH-0256        | North Carolina - | 530           |
| EPA Region 8+   | via MN 027-053 | North Dakota     | R-036         |
| Florida (NELAP) | E87605         | Ohio - DW        | 41244         |
| Georgia         | 959            | Ohio - VAP       | CL101         |
| Guam            | 20-00.R        | Oklahoma         | 9507          |
| Hawaii          | MN00064        | Oregon - Primar  | MN300001      |
| Idaho           | MN00064        | Oregon - Secon   | MN200001      |
| Illinois        | 200011         | Pennsylvania     | 68-00563      |
| Indiana         | C-MN-01        | Puerto Rico      | MN00064       |
| Iowa            | 368            | South Carolina   | 74003         |
| Kansas          | E-10167        | Tennessee        | TN02818       |
| Kentucky - DW   | 90062          | Texas            | T104704192    |
| Kentucky - WW   | 90062          | Utah (NELAP)     | MN00064       |
| Louisiana - DE  | 84596          | Vermont          | VT-027053137  |
| Louisiana - DW  | MN00064        | Virginia         | 460163        |
| Maine           | MN00064        | Washington       | C486          |
| Maryland        | 322            | West Virginia -  | 382           |
| Massachusetts   | M-MN064        | West Virginia -  | 9952C         |
| Michigan        | 9909           | Wisconsin        | 999407970     |
| Minnesota       | 027-053-137    | Wyoming - UST    | 2926.01       |
| Minnesota - De  | via MN 027-053 |                  |               |

## REPORT OF LABORATORY ANALYSIS

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# Appendix A

## Sample Management



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Report No: 0510004

PFAAD-BFR

Page 5 of 30

**Section A**

Required Client Information:

Company: **ATC Group Services**  
Address: **46555 Humbolt Dr  
Ste 100 Novi, MI 48377**  
Email To: **joshua.schyler@atcgs.com**  
Phone: **248-992-5378** Fax: **248-669-5147**  
Requested Due Date/TAT: **Standard**

**Section B**

Required Project Information:

Report To: **joshua.schyler@atcgs.com**  
Copy To: **april.hehir@atcgs.com**  
Purchase Order No.: **10065**  
Project Name: **Detroit Axel**  
Project Number: **NPDAX19001**

**Section C**

Invoice Information:

Attention: **Joshua Schyler**  
Company Name: **ATC Group Services**  
Address: **46555 Humbolt Dr Ste 100 Novi, MI 48377**  
Pace Quote Reference:  
Pace Project Manager: **Kirsten Hogberg**  
Pace Profile #: **46707**

Page: \_\_\_\_\_ of \_\_\_\_\_

**2307504**

**REGULATORY AGENCY**

NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER **EGL**

Site Location

STATE: **MI**

| ITEM # | SAMPLE ID<br>(A-Z, 0-9 / -) | Matrix Codes<br>MATRIX / CODE | MATRIX CODE<br>(see valid codes to left) | SAMPLE TYPE<br>(G=GRAB C=COMP) | COLLECTED       |      |                    |      | SAMPLE TEMP AT COLLECTION °F | # OF CONTAINERS | Preservatives |                                |                  |     |      |   |          |       |          |  | Analysis Test ↓ | Resid | Pace Project No./ Lab I.D. |
|--------|-----------------------------|-------------------------------|--|--------------------------------|-----------------|------|--------------------|------|------------------------------|-----------------|---------------|--------------------------------|------------------|-----|------|---|----------|-------|----------|--|-----------------|-------|----------------------------|
|        |                             |                               |  |                                | COMPOSITE START |      | COMPOSITE END/GRAB |      |                              |                 | Unpreserved   | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | NaOH | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> | Methanol | Other | PFASID&H |  |                 |       |                            |
|        |                             |                               |  |                                | DATE            | TIME | DATE               | TIME |                              |                 |               |                                |                  |     |      |   |          |       |          |  |                 |       |                            |
| 1      | MW-119                      | DW                            | G  | G                              | 4/23/20         | 1329 |                    |      | 47.2                         | 2               | X             |                                |                  |     |      |   |          |       |          |  |                 |       | 001                        |
| 2      | MW-120                      | WT                            | G  | G                              |                 | 1235 |                    |      | 44.7                         | 2               | X             |                                |                  |     |      |   |          |       |          |  |                 |       | 002                        |
| 3      | MW-121                      | WW                            | G  | G                              |                 | 1154 |                    |      | 50.2                         | 2               | X             |                                |                  |     |      |   |          |       |          |  |                 |       | 003                        |
| 4      | DUP-1                       | P                             | G  | G                              |                 | 0000 |                    |      | 44.7                         | 2               | X             |                                |                  |     |      |   |          |       |          |  |                 |       | 004                        |
| 5      | Trip Blank                  | SL                            | G  | G                              |                 | 0300 |                    |      | -                            | 1               | X             |                                |                  |     |      |   |          |       |          |  |                 |       | 005                        |
| 6      | Field Blank                 | OL                            | G  | G                              | ✓               | 1545 |                    |      | -                            | 1               | X             |                                |                  |     |      |   |          |       |          |  |                 |       | 006                        |
| 7      |                             | WP                            |  |                                |                 |      |                    |      |                              |                 |               |                                |                  |     |      |   |          |       |          |  |                 |       |                            |
| 8      |                             | AR                            |  |                                |                 |      |                    |      |                              |                 |               |                                |                  |     |      |   |          |       |          |  |                 |       |                            |
| 9      |                             | TS                            |  |                                |                 |      |                    |      |                              |                 |               |                                |                  |     |      |   |          |       |          |  |                 |       |                            |
| 10     |                             | OT                            |  |                                |                 |      |                    |      |                              |                 |               |                                |                  |     |      |   |          |       |          |  |                 |       |                            |
| 11     |                             |                               |  |                                |                 |      |                    |      |                              |                 |               |                                |                  |     |      |   |          |       |          |  |                 |       |                            |
| 12     |                             |                               |  |                                |                 |      |                    |      |                              |                 |               |                                |                  |     |      |   |          |       |          |  |                 |       |                            |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE    | TIME | ACCEPTED BY / AFFILIATION | DATE    | TIME | SAMPLE CONDITIONS |   |   |   |   |
|---------------------|-------------------------------|---------|------|---------------------------|---------|------|-------------------|---|---|---|---|
|                     | Spencer Overbeck/ATC          | 4/23/20 | 1730 | [Signature]               | 4/24/20 | 900  | 4.5               | Y | Y | Y | Y |

ORIGINAL

|  |   |            |                       |                             |                      |
|--|---|------------|-----------------------|-----------------------------|----------------------|
| SAMPLER NAME AND SIGNATURE                     |   | Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
| PRINT Name of SAMPLER: <b>Spencer Overbeck</b> |   |            |                       |                             |                      |
| SIGNATURE of SAMPLER: <b>[Signature]</b>       | DATE Signed (MM/DD/YY): <b>04/23/20</b> |            |                       |                             |                      |

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

|  |  |   |
|--|--|---|
| <b>Sample Condition Upon Receipt</b>   | Client Name:<br><u>ATC Group</u>   | Project #:<br><b>WO# : 10515804</b>             |
|  | Courier: <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Client<br><input type="checkbox"/> Pace <input type="checkbox"/> Speedee <input type="checkbox"/> Commercial <input type="checkbox"/> See Exceptions | PM: KNH Due Date: 05/15/20<br>CLIENT: Cardno-MI |
| Tracking Number: <u>1000 7302 1709</u> |  |   |

Custody Seal on Cooler/Box Present?  Yes  No      Seals Intact?  Yes  No      Biological Tissue Frozen?  Yes  No  N/A  
 Packing Material:  Bubble Wrap  Bubble Bags  None  Other: Pb      Temp Blank?  Yes  No  
 Thermometer:  T1(0461)  T2(1336)  T3(0459)      Type of Ice:  Wet  Blue  None  Dry  Melted  
 T4(0254)  T5(0489)

|   |  |
|---|--|
| Did Samples Originate in West Virginia? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No               | Were All Container Temps Taken? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Temp should be above freezing to 6°C  | Cooler Temp Read w/temp blank: <u>4.9</u> °C   |
| Correction Factor: <u>1.25</u>  | Cooler Temp Corrected w/temp blank: <u>4.9</u> °C  |
| Average Corrected Temp (no temp blank only): <input type="checkbox"/> See Exceptions <input type="checkbox"/> 1 Container |  |

USDA Regulated Soil:  N/A, water sample/Other: \_\_\_\_\_ Date/Initials of Person Examining Contents: 8/24/20  
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?  Yes  No  
 Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No  
**If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.**

|   | COMMENTS:   |
|---|---|
| Chain of Custody Present and Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 1.  |
| Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 2.  |
| Sampler Name and/or Signature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A  | 3.  |
| Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   | 4.  |
| Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | 5. <input type="checkbox"/> Fecal Coliform <input type="checkbox"/> HPC <input type="checkbox"/> Total Coliform/E coli <input type="checkbox"/> BOD/cBOD <input type="checkbox"/> Hex Chrome <input type="checkbox"/> Turbidity <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Orthophos <input type="checkbox"/> Other |
| Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | 6.  |
| Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 7.  |
| Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 8.  |
| -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  |   |
| Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 9.  |
| Field Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A  | 10. Is sediment visible in the dissolved container? <input type="checkbox"/> Yes <input type="checkbox"/> No  |
| Is sufficient information available to reconcile the samples to the COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 11. If no, write ID/ Date/Time on Container Below: <input type="checkbox"/> See Exception   |
| Matrix: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other   |   |
| All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A   | 12. Sample #  |
| All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | <input type="checkbox"/> NaOH <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> Zinc Acetate   |
| Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A  | Positive for Res. <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Exception<br>Chlorine? <input type="checkbox"/> No <input type="checkbox"/> pH Paper Lot# <input type="checkbox"/>  |
| Extra labels present on soil VOA or WIDRO containers? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A  | Res. Chlorine   |
| Headspace in VOA Vials (greater than 6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A   | 0-6 Roll  |
| Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A  | 0-6 Strip   |
| Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A  | 0-14 Strip  |
|   | 13. <input type="checkbox"/> See Exception  |
|   | 14. Pace Trip Blank Lot # (if purchased): _____   |

**CLIENT NOTIFICATION/RESOLUTION**  
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Field Data Required?  Yes  No  
 Comments/Resolution: \_\_\_\_\_

**Project Manager Review:** Kirsten Hoffert Date: 4/24/2020  
 Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: 832

## Reporting Flags

- A = Reporting Limit based on signal to noise
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Interference present
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- \* = See Discussion

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc.

## **Appendix B**

### Sample Analysis Summary



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-119          | Date Extracted         | 04/28/2020   |
| Lab Sample ID      | 10515804001     | Total Amount Extracted | 242 mL       |
| Filename           | Q200501B_013    | ICAL ID                | 200428A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200501B_003 |
| Collected          | 04/23/2020      | Ending CCal            | Q200501B_014 |
| Received           | 04/24/2020      | Method Blank Filename  | Q200501B_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed        | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|-----------------|-------------|-------|
| PFBA      | ND                   | 2.1        | 0.30       | 1        | 05/01/202020:09 | 375-22-4    | N2    |
| PFPeA     | ND                   | 2.1        | 0.26       | 1        | 05/01/202020:09 | 2706-90-3   | N2    |
| PFHxA     | ND                   | 2.1        | 0.36       | 1        | 05/01/202020:09 | 307-24-4    | N2    |
| PFHpA     | ND                   | 2.1        | 0.44       | 1        | 05/01/202020:09 | 375-85-9    | N2    |
| PFOA      | ND                   | 2.1        | 0.42       | 1        | 05/01/202020:09 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.1        | 0.57       | 1        | 05/01/202020:09 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.1        | 0.66       | 1        | 05/01/202020:09 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.1        | 0.54       | 1        | 05/01/202020:09 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.1        | 0.40       | 1        | 05/01/202020:09 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 2.1        | 0.44       | 1        | 05/01/202020:09 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.1        | 0.40       | 1        | 05/01/202020:09 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.1        | 0.23       | 1        | 05/01/202020:09 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.1        | 0.91       | 1        | 05/01/202020:09 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.1        | 0.44       | 1        | 05/01/202020:09 | 2355-31-9   | N2    |
| PFBS      | ND                   | 1.8        | 0.20       | 1        | 05/01/202020:09 | 375-73-5    | N2    |
| PFPeS     | ND                   | 1.9        | 0.36       | 1        | 05/01/202020:09 | 2706-91-4   | N2    |
| PFHxS     | ND                   | 1.9        | 0.37       | 1        | 05/01/202020:09 | 355-46-4    | N2    |
| PFHpS     | ND                   | 2.0        | 0.45       | 1        | 05/01/202020:09 | 375-92-8    | N2    |
| PFOS      | ND                   | 1.9        | 0.39       | 1        | 05/01/202020:09 | 1763-23-1   | N2    |
| PFNS      | ND                   | 2.0        | 0.45       | 1        | 05/01/202020:09 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.0        | 0.32       | 1        | 05/01/202020:09 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 1.9        | 0.57       | 1        | 05/01/202020:09 | 757124-72-4 | N2    |
| 6:2FTS    | ND                   | 2.0        | 0.92       | 1        | 05/01/202020:09 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 2.0        | 0.75       | 1        | 05/01/202020:09 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-119          | Date Extracted         | 04/28/2020   |
| Lab Sample ID      | 10515804001     | Total Amount Extracted | 242 mL       |
| Filename           | Q200501B_013    | ICAL ID                | 200428A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200501B_003 |
| Collected          | 04/23/2020      | Ending CCal            | Q200501B_014 |
| Received           | 04/24/2020      | Method Blank Filename  | Q200501B_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 21             | 28             | 134       | 50-150             | Pass      | 762925 |
| 13C5_PFPeA                     | 21             | 23             | 110       | 50-150             | Pass      | 562445 |
| 13C5_PFHxA                     | 21             | 21             | 102       | 50-150             | Pass      | 640602 |
| 13C4_PFHpA                     | 21             | 19             | 93        | 50-150             | Pass      | 552583 |
| 13C8_PFOA                      | 21             | 16             | 79        | 50-150             | Pass      | 535057 |
| 13C9_PFNA                      | 21             | 12             | 59        | 50-150             | Pass      | 591597 |
| 13C6_PFDA                      | 21             | 13             | 62        | 50-150             | Pass      | 461233 |
| 13C7_PFUdA                     | 21             | 15             | 71        | 50-150             | Pass      | 425993 |
| 13C2_PFDoA                     | 21             | 15             | 70        | 50-150             | Pass      | 407942 |
| 13C2_PFTeDA                    | 21             | 12             | 56        | 50-150             | Pass      | 317477 |
| d5-EtFOSAA                     | 21             | 19             | 93        | 50-150             | Pass      | 96596  |
| d3-MeFOSAA                     | 21             | 20             | 95        | 50-150             | Pass      | 90695  |
| 13C3_PFBS                      | 21             | 22             | 105       | 50-150             | Pass      | 487758 |
| 13C3_PFHxS                     | 21             | 17             | 81        | 50-150             | Pass      | 468599 |
| 13C8_PFOS                      | 21             | 17             | 83        | 50-150             | Pass      | 529676 |
| 13C8_PFOA                      | 21             | 19             | 90        | 50-150             | Pass      | 784363 |
| 13C2_4:2FTS                    | 21             | 26             | 127       | 50-150             | Pass      | 130365 |
| 13C2_6:2FTS                    | 21             | 18             | 87        | 50-150             | Pass      | 97821  |
| 13C2_8:2FTS                    | 21             | 11             | 56        | 50-150             | Pass      | 78244  |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 711765 | 432972 - 1298915 | 483327 - 1449981 | Pass      |
| 13C4_PFOS   | 607515 | 280874 - 842624  | 396036 - 1188109 | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-120          | Date Extracted         | 04/28/2020   |
| Lab Sample ID      | 10515804002     | Total Amount Extracted | 234 mL       |
| Filename           | Q200501B_015    | ICAL ID                | 200428A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200501B_014 |
| Collected          | 04/23/2020      | Ending CCal            | Q200501B_025 |
| Received           | 04/24/2020      | Method Blank Filename  | Q200501B_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed        | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|-----------------|-------------|-------|
| PFBA      | 7.2                  | 2.1        | 0.31       | 1        | 05/01/202021:02 | 375-22-4    | N2    |
| PFPeA     | ND                   | 2.1        | 0.27       | 1        | 05/01/202021:02 | 2706-90-3   | N2    |
| PFHxA     | ND                   | 2.1        | 0.37       | 1        | 05/01/202021:02 | 307-24-4    | N2    |
| PFHpA     | ND                   | 2.1        | 0.45       | 1        | 05/01/202021:02 | 375-85-9    | N2    |
| PFOA      | 6.4                  | 2.1        | 0.43       | 1        | 05/01/202021:02 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.1        | 0.59       | 1        | 05/01/202021:02 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.1        | 0.68       | 1        | 05/01/202021:02 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.1        | 0.56       | 1        | 05/01/202021:02 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.1        | 0.41       | 1        | 05/01/202021:02 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 2.1        | 0.45       | 1        | 05/01/202021:02 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.1        | 0.41       | 1        | 05/01/202021:02 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.1        | 0.24       | 1        | 05/01/202021:02 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.1        | 0.94       | 1        | 05/01/202021:02 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.1        | 0.45       | 1        | 05/01/202021:02 | 2355-31-9   | N2    |
| PFBS      | 3.1                  | 1.9        | 0.20       | 1        | 05/01/202021:02 | 375-73-5    | N2    |
| PFPeS     | ND                   | 2.0        | 0.37       | 1        | 05/01/202021:02 | 2706-91-4   | N2    |
| PFHxS     | ND                   | 1.9        | 0.38       | 1        | 05/01/202021:02 | 355-46-4    | N2    |
| PFHpS     | ND                   | 2.0        | 0.47       | 1        | 05/01/202021:02 | 375-92-8    | N2    |
| PFOS      | ND                   | 2.0        | 0.40       | 1        | 05/01/202021:02 | 1763-23-1   | N2    |
| PFNS      | ND                   | 2.0        | 0.47       | 1        | 05/01/202021:02 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.1        | 0.33       | 1        | 05/01/202021:02 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 2.0        | 0.59       | 1        | 05/01/202021:02 | 757124-72-4 | N2    |
| 6:2FTS    | ND                   | 2.0        | 0.95       | 1        | 05/01/202021:02 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 2.0        | 0.78       | 1        | 05/01/202021:02 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-120          | Date Extracted         | 04/28/2020   |
| Lab Sample ID      | 10515804002     | Total Amount Extracted | 234 mL       |
| Filename           | Q200501B_015    | ICAL ID                | 200428A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200501B_014 |
| Collected          | 04/23/2020      | Ending CCal            | Q200501B_025 |
| Received           | 04/24/2020      | Method Blank Filename  | Q200501B_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 21             | 24             | 113       | 50-150             | Pass      | 723103 |
| 13C5_PFPeA                     | 21             | 20             | 96        | 50-150             | Pass      | 552689 |
| 13C5_PFHxA                     | 21             | 19             | 89        | 50-150             | Pass      | 623510 |
| 13C4_PFHpA                     | 21             | 18             | 85        | 50-150             | Pass      | 563149 |
| 13C8_PFOA                      | 21             | 18             | 83        | 50-150             | Pass      | 630051 |
| 13C9_PFNA                      | 21             | 12             | 55        | 50-150             | Pass      | 581897 |
| 13C6_PFDA                      | 21             | 15             | 70        | 50-150             | Pass      | 540147 |
| 13C7_PFUdA                     | 21             | 13             | 61        | 50-150             | Pass      | 386219 |
| 13C2_PFDoA                     | 21             | 15             | 69        | 50-150             | Pass      | 418247 |
| 13C2_PFTeDA                    | 21             | 11             | 54        | 50-150             | Pass      | 316176 |
| d5-EtFOSAA                     | 21             | 19             | 88        | 50-150             | Pass      | 96176  |
| d3-MeFOSAA                     | 21             | 18             | 85        | 50-150             | Pass      | 84210  |
| 13C3_PFBS                      | 21             | 20             | 96        | 50-150             | Pass      | 501312 |
| 13C3_PFHxS                     | 21             | 17             | 81        | 50-150             | Pass      | 485077 |
| 13C8_PFOS                      | 21             | 18             | 84        | 50-150             | Pass      | 557665 |
| 13C8_PFOA                      | 21             | 6.8            | 32        | 50-150             | Fail      | 290740 |
| 13C2_4:2FTS                    | 21             | 27             | 127       | 50-150             | Pass      | 146407 |
| 13C2_6:2FTS                    | 21             | 19             | 91        | 50-150             | Pass      | 115317 |
| 13C2_8:2FTS                    | 21             | 13             | 62        | 50-150             | Pass      | 90988  |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 799996 | 432972 - 1298915 | 409987 - 1229962 | Pass      |
| 13C4_PFOS   | 633104 | 280874 - 842624  | 331227 - 993681  | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.





**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-120-DUP      | Date Extracted         | 04/28/2020   |
| Lab Sample ID      | 10515804002-DUP | Total Amount Extracted | 235 mL       |
| Filename           | Q200501B_021    | ICAL ID                | 200428A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200501B_014 |
| Collected          | 04/23/2020      | Ending CCal            | Q200501B_025 |
| Received           | 04/24/2020      | Method Blank Filename  | Q200501B_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed        | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|-----------------|-------------|-------|
| PFBA      | 6.8                  | 2.1        | 0.31       | 1        | 05/01/202023:42 | 375-22-4    | N2    |
| PFPeA     | ND                   | 2.1        | 0.27       | 1        | 05/01/202023:42 | 2706-90-3   | N2    |
| PFHxA     | ND                   | 2.1        | 0.37       | 1        | 05/01/202023:42 | 307-24-4    | N2    |
| PFHpA     | ND                   | 2.1        | 0.45       | 1        | 05/01/202023:42 | 375-85-9    | N2    |
| PFOA      | 6.0                  | 2.1        | 0.43       | 1        | 05/01/202023:42 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.1        | 0.59       | 1        | 05/01/202023:42 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.1        | 0.68       | 1        | 05/01/202023:42 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.1        | 0.56       | 1        | 05/01/202023:42 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.1        | 0.41       | 1        | 05/01/202023:42 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 2.1        | 0.45       | 1        | 05/01/202023:42 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.1        | 0.41       | 1        | 05/01/202023:42 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.1        | 0.24       | 1        | 05/01/202023:42 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.1        | 0.93       | 1        | 05/01/202023:42 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.1        | 0.45       | 1        | 05/01/202023:42 | 2355-31-9   | N2    |
| PFBS      | 3.2                  | 1.9        | 0.20       | 1        | 05/01/202023:42 | 375-73-5    | N2    |
| PFPeS     | ND                   | 2.0        | 0.37       | 1        | 05/01/202023:42 | 2706-91-4   | N2    |
| PFHxS     | ND                   | 1.9        | 0.38       | 1        | 05/01/202023:42 | 355-46-4    | N2    |
| PFHpS     | ND                   | 2.0        | 0.46       | 1        | 05/01/202023:42 | 375-92-8    | N2    |
| PFOS      | ND                   | 2.0        | 0.40       | 1        | 05/01/202023:42 | 1763-23-1   | N2    |
| PFNS      | ND                   | 2.0        | 0.46       | 1        | 05/01/202023:42 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.1        | 0.33       | 1        | 05/01/202023:42 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 2.0        | 0.59       | 1        | 05/01/202023:42 | 757124-72-4 | N2    |
| 6:2FTS    | ND                   | 2.0        | 0.95       | 1        | 05/01/202023:42 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 2.0        | 0.78       | 1        | 05/01/202023:42 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-120-DUP      | Date Extracted         | 04/28/2020   |
| Lab Sample ID      | 10515804002-DUP | Total Amount Extracted | 235 mL       |
| Filename           | Q200501B_021    | ICAL ID                | 200428A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200501B_014 |
| Collected          | 04/23/2020      | Ending CCal            | Q200501B_025 |
| Received           | 04/24/2020      | Method Blank Filename  | Q200501B_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 21             | 25             | 116       | 50-150             | Pass      | 740353 |
| 13C5_PFPeA                     | 21             | 21             | 100       | 50-150             | Pass      | 576542 |
| 13C5_PFHxA                     | 21             | 20             | 95        | 50-150             | Pass      | 668981 |
| 13C4_PFHpA                     | 21             | 19             | 88        | 50-150             | Pass      | 589109 |
| 13C8_PFOA                      | 21             | 18             | 83        | 50-150             | Pass      | 630339 |
| 13C9_PFNA                      | 21             | 13             | 61        | 50-150             | Pass      | 647094 |
| 13C6_PFDA                      | 21             | 14             | 67        | 50-150             | Pass      | 522874 |
| 13C7_PFUdA                     | 21             | 14             | 64        | 50-150             | Pass      | 406418 |
| 13C2_PFDoA                     | 21             | 15             | 69        | 50-150             | Pass      | 418671 |
| 13C2_PFTeDA                    | 21             | 12             | 54        | 50-150             | Pass      | 323250 |
| d5-EtFOSAA                     | 21             | 18             | 85        | 50-150             | Pass      | 93652  |
| d3-MeFOSAA                     | 21             | 17             | 79        | 50-150             | Pass      | 79365  |
| 13C3_PFBS                      | 21             | 20             | 95        | 50-150             | Pass      | 499327 |
| 13C3_PFHxS                     | 21             | 18             | 87        | 50-150             | Pass      | 526082 |
| 13C8_PFOS                      | 21             | 18             | 83        | 50-150             | Pass      | 553362 |
| 13C8_PFOA                      | 21             | 12             | 56        | 50-150             | Pass      | 518114 |
| 13C2_4:2FTS                    | 21             | 27             | 126       | 50-150             | Pass      | 145949 |
| 13C2_6:2FTS                    | 21             | 19             | 91        | 50-150             | Pass      | 115683 |
| 13C2_8:2FTS                    | 21             | 13             | 61        | 50-150             | Pass      | 90792  |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 802561 | 432972 - 1298915 | 409987 - 1229962 | Pass      |
| 13C4_PFOS   | 638599 | 280874 - 842624  | 331227 - 993681  | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-121          | Date Extracted         | 04/28/2020   |
| Lab Sample ID      | 10515804003     | Total Amount Extracted | 238 mL       |
| Filename           | Q200501B_016    | ICAL ID                | 200428A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200501B_014 |
| Collected          | 04/23/2020      | Ending CCal            | Q200501B_025 |
| Received           | 04/24/2020      | Method Blank Filename  | Q200501B_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed        | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|-----------------|-------------|-------|
| PFBA      | 12                   | 2.1        | 0.31       | 1        | 05/01/202021:29 | 375-22-4    | N2    |
| PFPeA     | 18                   | 2.1        | 0.26       | 1        | 05/01/202021:29 | 2706-90-3   | N2    |
| PFHxA     | 22                   | 2.1        | 0.37       | 1        | 05/01/202021:29 | 307-24-4    | N2    |
| PFHpA     | 12                   | 2.1        | 0.44       | 1        | 05/01/202021:29 | 375-85-9    | N2    |
| PFOA      | 32                   | 2.1        | 0.43       | 1        | 05/01/202021:29 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.1        | 0.58       | 1        | 05/01/202021:29 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.1        | 0.67       | 1        | 05/01/202021:29 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.1        | 0.55       | 1        | 05/01/202021:29 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.1        | 0.40       | 1        | 05/01/202021:29 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 2.1        | 0.44       | 1        | 05/01/202021:29 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.1        | 0.40       | 1        | 05/01/202021:29 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.1        | 0.24       | 1        | 05/01/202021:29 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.1        | 0.92       | 1        | 05/01/202021:29 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.1        | 0.44       | 1        | 05/01/202021:29 | 2355-31-9   | N2    |
| PFBS      | 3.9                  | 1.9        | 0.20       | 1        | 05/01/202021:29 | 375-73-5    | N2    |
| PFPeS     | ND                   | 2.0        | 0.37       | 1        | 05/01/202021:29 | 2706-91-4   | N2    |
| PFHxS     | 5.9                  | 1.9        | 0.38       | 1        | 05/01/202021:29 | 355-46-4    | N2    |
| PFHpS     | ND                   | 2.0        | 0.46       | 1        | 05/01/202021:29 | 375-92-8    | N2    |
| PFOS      | ND                   | 1.9        | 0.39       | 1        | 05/01/202021:29 | 1763-23-1   | N2    |
| PFNS      | ND                   | 2.0        | 0.46       | 1        | 05/01/202021:29 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.0        | 0.33       | 1        | 05/01/202021:29 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 2.0        | 0.58       | 1        | 05/01/202021:29 | 757124-72-4 | N2    |
| 6:2FTS    | 3.3                  | 2.0        | 0.93       | 1        | 05/01/202021:29 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 2.0        | 0.77       | 1        | 05/01/202021:29 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-121          | Date Extracted         | 04/28/2020   |
| Lab Sample ID      | 10515804003     | Total Amount Extracted | 238 mL       |
| Filename           | Q200501B_016    | ICAL ID                | 200428A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200501B_014 |
| Collected          | 04/23/2020      | Ending CCal            | Q200501B_025 |
| Received           | 04/24/2020      | Method Blank Filename  | Q200501B_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 21             | 25             | 121       | 50-150             | Pass      | 769358 |
| 13C5_PFPeA                     | 21             | 21             | 102       | 50-150             | Pass      | 588684 |
| 13C5_PFHxA                     | 21             | 19             | 91        | 50-150             | Pass      | 638805 |
| 13C4_PFHpA                     | 21             | 19             | 90        | 50-150             | Pass      | 600653 |
| 13C8_PFOA                      | 21             | 17             | 82        | 50-150             | Pass      | 625031 |
| 13C9_PFNA                      | 21             | 13             | 61        | 50-150             | Pass      | 633947 |
| 13C6_PFDA                      | 21             | 15             | 70        | 50-150             | Pass      | 533768 |
| 13C7_PFUdA                     | 21             | 15             | 74        | 50-150             | Pass      | 454172 |
| 13C2_PFDoA                     | 21             | 17             | 79        | 50-150             | Pass      | 472363 |
| 13C2_PFTeDA                    | 21             | 13             | 62        | 50-150             | Pass      | 357892 |
| d5-EtFOSAA                     | 21             | 20             | 97        | 50-150             | Pass      | 103424 |
| d3-MeFOSAA                     | 21             | 20             | 94        | 50-150             | Pass      | 91548  |
| 13C3_PFBS                      | 21             | 21             | 99        | 50-150             | Pass      | 518366 |
| 13C3_PFHxS                     | 21             | 18             | 87        | 50-150             | Pass      | 514070 |
| 13C8_PFOS                      | 21             | 18             | 86        | 50-150             | Pass      | 561726 |
| 13C8_PFOA                      | 21             | 18             | 84        | 50-150             | Pass      | 753687 |
| 13C2_4:2FTS                    | 21             | 28             | 136       | 50-150             | Pass      | 156412 |
| 13C2_6:2FTS                    | 21             | 18             | 84        | 50-150             | Pass      | 106437 |
| 13C2_8:2FTS                    | 21             | 13             | 60        | 50-150             | Pass      | 86905  |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 798894 | 432972 - 1298915 | 409987 - 1229962 | Pass      |
| 13C4_PFOS   | 621424 | 280874 - 842624  | 331227 - 993681  | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | Dup-1           | Date Extracted         | 04/28/2020   |
| Lab Sample ID      | 10515804004     | Total Amount Extracted | 238 mL       |
| Filename           | Q200501B_017    | ICAL ID                | 200428A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200501B_014 |
| Collected          | 04/23/2020      | Ending CCal            | Q200501B_025 |
| Received           | 04/24/2020      | Method Blank Filename  | Q200501B_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed        | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|-----------------|-------------|-------|
| PFBA      | 7.0                  | 2.1        | 0.31       | 1        | 05/01/202021:55 | 375-22-4    | N2    |
| PFPeA     | ND                   | 2.1        | 0.26       | 1        | 05/01/202021:55 | 2706-90-3   | N2    |
| PFHxA     | ND                   | 2.1        | 0.37       | 1        | 05/01/202021:55 | 307-24-4    | N2    |
| PFHpA     | ND                   | 2.1        | 0.44       | 1        | 05/01/202021:55 | 375-85-9    | N2    |
| PFOA      | 5.9                  | 2.1        | 0.43       | 1        | 05/01/202021:55 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.1        | 0.58       | 1        | 05/01/202021:55 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.1        | 0.67       | 1        | 05/01/202021:55 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.1        | 0.55       | 1        | 05/01/202021:55 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.1        | 0.40       | 1        | 05/01/202021:55 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 2.1        | 0.44       | 1        | 05/01/202021:55 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.1        | 0.40       | 1        | 05/01/202021:55 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.1        | 0.24       | 1        | 05/01/202021:55 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.1        | 0.92       | 1        | 05/01/202021:55 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.1        | 0.44       | 1        | 05/01/202021:55 | 2355-31-9   | N2    |
| PFBS      | 2.8                  | 1.9        | 0.20       | 1        | 05/01/202021:55 | 375-73-5    | N2    |
| PFPeS     | ND                   | 2.0        | 0.37       | 1        | 05/01/202021:55 | 2706-91-4   | N2    |
| PFHxS     | ND                   | 1.9        | 0.38       | 1        | 05/01/202021:55 | 355-46-4    | N2    |
| PFHpS     | ND                   | 2.0        | 0.46       | 1        | 05/01/202021:55 | 375-92-8    | N2    |
| PFOS      | ND                   | 1.9        | 0.39       | 1        | 05/01/202021:55 | 1763-23-1   | N2    |
| PFNS      | ND                   | 2.0        | 0.46       | 1        | 05/01/202021:55 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.0        | 0.33       | 1        | 05/01/202021:55 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 2.0        | 0.58       | 1        | 05/01/202021:55 | 757124-72-4 | N2    |
| 6:2FTS    | ND                   | 2.0        | 0.93       | 1        | 05/01/202021:55 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 2.0        | 0.77       | 1        | 05/01/202021:55 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | Dup-1           | Date Extracted         | 04/28/2020   |
| Lab Sample ID      | 10515804004     | Total Amount Extracted | 238 mL       |
| Filename           | Q200501B_017    | ICAL ID                | 200428A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200501B_014 |
| Collected          | 04/23/2020      | Ending CCal            | Q200501B_025 |
| Received           | 04/24/2020      | Method Blank Filename  | Q200501B_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 21             | 23             | 110       | 50-150             | Pass      | 749283 |
| 13C5_PFPeA                     | 21             | 20             | 96        | 50-150             | Pass      | 588988 |
| 13C5_PFHxA                     | 21             | 18             | 85        | 50-150             | Pass      | 637177 |
| 13C4_PFHpA                     | 21             | 17             | 80        | 50-150             | Pass      | 564890 |
| 13C8_PFOA                      | 21             | 16             | 77        | 50-150             | Pass      | 629007 |
| 13C9_PFNA                      | 21             | 13             | 63        | 50-150             | Pass      | 674071 |
| 13C6_PFDA                      | 21             | 14             | 67        | 50-150             | Pass      | 529939 |
| 13C7_PFUdA                     | 21             | 14             | 68        | 50-150             | Pass      | 437429 |
| 13C2_PFDoA                     | 21             | 14             | 65        | 50-150             | Pass      | 401149 |
| 13C2_PFTeDA                    | 21             | 11             | 54        | 50-150             | Pass      | 328199 |
| d5-EtFOSAA                     | 21             | 20             | 94        | 50-150             | Pass      | 104711 |
| d3-MeFOSAA                     | 21             | 18             | 85        | 50-150             | Pass      | 86081  |
| 13C3_PFBS                      | 21             | 19             | 91        | 50-150             | Pass      | 507423 |
| 13C3_PFHxS                     | 21             | 17             | 81        | 50-150             | Pass      | 496086 |
| 13C8_PFOS                      | 21             | 18             | 85        | 50-150             | Pass      | 577932 |
| 13C8_PFOSA                     | 21             | 8.7            | 42        | 50-150             | Fail      | 387479 |
| 13C2_4:2FTS                    | 21             | 26             | 122       | 50-150             | Pass      | 150250 |
| 13C2_6:2FTS                    | 21             | 17             | 79        | 50-150             | Pass      | 107114 |
| 13C2_8:2FTS                    | 21             | 13             | 62        | 50-150             | Pass      | 92407  |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 853192 | 432972 - 1298915 | 409987 - 1229962 | Pass      |
| 13C4_PFOS   | 647510 | 280874 - 842624  | 331227 - 993681  | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |              |                        |              |
|--------------------|--------------|------------------------|--------------|
| Client's Sample ID | Trip Blank   | Date Extracted         | 04/28/2020   |
| Lab Sample ID      | 10515804005  | Total Amount Extracted | 238 mL       |
| Filename           | Q200501B_018 | ICAL ID                | 200428A01    |
| Matrix             | Water        | Starting CCal          | Q200501B_014 |
| Collected          | 04/23/2020   | Ending CCal            | Q200501B_025 |
| Received           | 04/24/2020   | Method Blank Filename  | Q200501B_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed        | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|-----------------|-------------|-------|
| PFBA      | ND                   | 2.1        | 0.31       | 1        | 05/01/202022:22 | 375-22-4    | N2    |
| PFPeA     | ND                   | 2.1        | 0.26       | 1        | 05/01/202022:22 | 2706-90-3   | N2    |
| PFHxA     | ND                   | 2.1        | 0.37       | 1        | 05/01/202022:22 | 307-24-4    | N2    |
| PFHpA     | ND                   | 2.1        | 0.44       | 1        | 05/01/202022:22 | 375-85-9    | N2    |
| PFOA      | ND                   | 2.1        | 0.43       | 1        | 05/01/202022:22 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.1        | 0.58       | 1        | 05/01/202022:22 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.1        | 0.67       | 1        | 05/01/202022:22 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.1        | 0.55       | 1        | 05/01/202022:22 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.1        | 0.40       | 1        | 05/01/202022:22 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 2.1        | 0.44       | 1        | 05/01/202022:22 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.1        | 0.40       | 1        | 05/01/202022:22 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.1        | 0.24       | 1        | 05/01/202022:22 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.1        | 0.92       | 1        | 05/01/202022:22 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.1        | 0.44       | 1        | 05/01/202022:22 | 2355-31-9   | N2    |
| PFBS      | ND                   | 1.9        | 0.20       | 1        | 05/01/202022:22 | 375-73-5    | N2    |
| PFPeS     | ND                   | 2.0        | 0.37       | 1        | 05/01/202022:22 | 2706-91-4   | N2    |
| PFHxS     | ND                   | 1.9        | 0.38       | 1        | 05/01/202022:22 | 355-46-4    | N2    |
| PFHpS     | ND                   | 2.0        | 0.46       | 1        | 05/01/202022:22 | 375-92-8    | N2    |
| PFOS      | ND                   | 1.9        | 0.39       | 1        | 05/01/202022:22 | 1763-23-1   | N2    |
| PFNS      | ND                   | 2.0        | 0.46       | 1        | 05/01/202022:22 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.0        | 0.33       | 1        | 05/01/202022:22 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 2.0        | 0.58       | 1        | 05/01/202022:22 | 757124-72-4 | N2    |
| 6:2FTS    | ND                   | 2.0        | 0.94       | 1        | 05/01/202022:22 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 2.0        | 0.77       | 1        | 05/01/202022:22 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |              |                        |              |
|--------------------|--------------|------------------------|--------------|
| Client's Sample ID | Trip Blank   | Date Extracted         | 04/28/2020   |
| Lab Sample ID      | 10515804005  | Total Amount Extracted | 238 mL       |
| Filename           | Q200501B_018 | ICAL ID                | 200428A01    |
| Matrix             | Water        | Starting CCal          | Q200501B_014 |
| Collected          | 04/23/2020   | Ending CCal            | Q200501B_025 |
| Received           | 04/24/2020   | Method Blank Filename  | Q200501B_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 21             | 25             | 121       | 50-150             | Pass      | 752481 |
| 13C5_PFPeA                     | 21             | 21             | 101       | 50-150             | Pass      | 567510 |
| 13C5_PFHxA                     | 21             | 19             | 93        | 50-150             | Pass      | 633635 |
| 13C4_PFHpA                     | 21             | 18             | 85        | 50-150             | Pass      | 549646 |
| 13C8_PFOA                      | 21             | 17             | 80        | 50-150             | Pass      | 594316 |
| 13C9_PFNA                      | 21             | 12             | 57        | 50-150             | Pass      | 582408 |
| 13C6_PFDA                      | 21             | 13             | 64        | 50-150             | Pass      | 477853 |
| 13C7_PFUdA                     | 21             | 15             | 73        | 50-150             | Pass      | 442572 |
| 13C2_PFDoA                     | 21             | 16             | 76        | 50-150             | Pass      | 444604 |
| 13C2_PFTeDA                    | 21             | 12             | 59        | 50-150             | Pass      | 337607 |
| d5-EtFOSAA                     | 21             | 19             | 92        | 50-150             | Pass      | 96405  |
| d3-MeFOSAA                     | 21             | 18             | 84        | 50-150             | Pass      | 80851  |
| 13C3_PFBS                      | 21             | 20             | 94        | 50-150             | Pass      | 479602 |
| 13C3_PFHxS                     | 21             | 17             | 81        | 50-150             | Pass      | 472188 |
| 13C8_PFOS                      | 21             | 18             | 85        | 50-150             | Pass      | 544406 |
| 13C8_PFOA                      | 21             | 16             | 77        | 50-150             | Pass      | 678788 |
| 13C2_4:2FTS                    | 21             | 15             | 74        | 50-150             | Pass      | 82770  |
| 13C2_6:2FTS                    | 21             | 16             | 74        | 50-150             | Pass      | 91453  |
| 13C2_8:2FTS                    | 21             | 11             | 53        | 50-150             | Pass      | 75694  |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 777689 | 432972 - 1298915 | 409987 - 1229962 | Pass      |
| 13C4_PFOS   | 613274 | 280874 - 842624  | 331227 - 993681  | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.





**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |              |                        |              |
|--------------------|--------------|------------------------|--------------|
| Client's Sample ID | Field Blank  | Date Extracted         | 04/28/2020   |
| Lab Sample ID      | 10515804006  | Total Amount Extracted | 243 mL       |
| Filename           | Q200501B_019 | ICAL ID                | 200428A01    |
| Matrix             | Water        | Starting CCal          | Q200501B_014 |
| Collected          | 04/23/2020   | Ending CCal            | Q200501B_025 |
| Received           | 04/24/2020   | Method Blank Filename  | Q200501B_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed        | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|-----------------|-------------|-------|
| PFBA      | ND                   | 2.1        | 0.30       | 1        | 05/01/202022:49 | 375-22-4    | N2    |
| PFPeA     | ND                   | 2.1        | 0.26       | 1        | 05/01/202022:49 | 2706-90-3   | N2    |
| PFHxA     | ND                   | 2.1        | 0.36       | 1        | 05/01/202022:49 | 307-24-4    | N2    |
| PFHpA     | ND                   | 2.1        | 0.44       | 1        | 05/01/202022:49 | 375-85-9    | N2    |
| PFOA      | ND                   | 2.1        | 0.42       | 1        | 05/01/202022:49 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.1        | 0.57       | 1        | 05/01/202022:49 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.1        | 0.66       | 1        | 05/01/202022:49 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.1        | 0.54       | 1        | 05/01/202022:49 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.1        | 0.40       | 1        | 05/01/202022:49 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 2.1        | 0.44       | 1        | 05/01/202022:49 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.1        | 0.40       | 1        | 05/01/202022:49 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.1        | 0.23       | 1        | 05/01/202022:49 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.1        | 0.90       | 1        | 05/01/202022:49 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.1        | 0.43       | 1        | 05/01/202022:49 | 2355-31-9   | N2    |
| PFBS      | ND                   | 1.8        | 0.20       | 1        | 05/01/202022:49 | 375-73-5    | N2    |
| PFPeS     | ND                   | 1.9        | 0.36       | 1        | 05/01/202022:49 | 2706-91-4   | N2    |
| PFHxS     | ND                   | 1.9        | 0.37       | 1        | 05/01/202022:49 | 355-46-4    | N2    |
| PFHpS     | ND                   | 2.0        | 0.45       | 1        | 05/01/202022:49 | 375-92-8    | N2    |
| PFOS      | ND                   | 1.9        | 0.39       | 1        | 05/01/202022:49 | 1763-23-1   | N2    |
| PFNS      | ND                   | 2.0        | 0.45       | 1        | 05/01/202022:49 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.0        | 0.32       | 1        | 05/01/202022:49 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 1.9        | 0.57       | 1        | 05/01/202022:49 | 757124-72-4 | N2    |
| 6:2FTS    | ND                   | 2.0        | 0.92       | 1        | 05/01/202022:49 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 2.0        | 0.75       | 1        | 05/01/202022:49 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |              |                        |              |
|--------------------|--------------|------------------------|--------------|
| Client's Sample ID | Field Blank  | Date Extracted         | 04/28/2020   |
| Lab Sample ID      | 10515804006  | Total Amount Extracted | 243 mL       |
| Filename           | Q200501B_019 | ICAL ID                | 200428A01    |
| Matrix             | Water        | Starting CCal          | Q200501B_014 |
| Collected          | 04/23/2020   | Ending CCal            | Q200501B_025 |
| Received           | 04/24/2020   | Method Blank Filename  | Q200501B_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 21             | 27             | 129       | 50-150             | Pass      | 740336 |
| 13C5_PFPeA                     | 21             | 22             | 106       | 50-150             | Pass      | 548207 |
| 13C5_PFHxA                     | 21             | 20             | 95        | 50-150             | Pass      | 602539 |
| 13C4_PFHpA                     | 21             | 18             | 86        | 50-150             | Pass      | 513242 |
| 13C8_PFOA                      | 21             | 17             | 83        | 50-150             | Pass      | 568070 |
| 13C9_PFNA                      | 21             | 11             | 55        | 50-150             | Pass      | 561419 |
| 13C6_PFDA                      | 21             | 14             | 68        | 50-150             | Pass      | 516992 |
| 13C7_PFUdA                     | 21             | 14             | 66        | 50-150             | Pass      | 408970 |
| 13C2_PFDoA                     | 21             | 14             | 70        | 50-150             | Pass      | 415432 |
| 13C2_PFTeDA                    | 21             | 12             | 56        | 50-150             | Pass      | 323223 |
| d5-EtFOSAA                     | 21             | 19             | 92        | 50-150             | Pass      | 98040  |
| d3-MeFOSAA                     | 21             | 17             | 82        | 50-150             | Pass      | 80101  |
| 13C3_PFBS                      | 21             | 21             | 103       | 50-150             | Pass      | 480584 |
| 13C3_PFHxS                     | 21             | 17             | 82        | 50-150             | Pass      | 479112 |
| 13C8_PFOS                      | 21             | 17             | 84        | 50-150             | Pass      | 543363 |
| 13C8_PFOA                      | 21             | 17             | 81        | 50-150             | Pass      | 725237 |
| 13C2_4:2FTS                    | 21             | 17             | 84        | 50-150             | Pass      | 87310  |
| 13C2_6:2FTS                    | 21             | 15             | 75        | 50-150             | Pass      | 84675  |
| 13C2_8:2FTS                    | 21             | 12             | 56        | 50-150             | Pass      | 80444  |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 717246 | 432972 - 1298915 | 409987 - 1229962 | Pass      |
| 13C4_PFOS   | 619971 | 280874 - 842624  | 331227 - 993681  | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope DilutionBlank Analysis Summary**

|                |              |                        |              |
|----------------|--------------|------------------------|--------------|
| Lab Sample ID  | BLANK-78934  | Total Amount Extracted | 248 mL       |
| Filename       | Q200501B_004 | ICAL ID                | 200501A01    |
| Matrix         | Water        | Starting CCal          | Q200501B_003 |
| Date Extracted | 04/28/2020   | Ending CCal            | Q200501B_014 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed         | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|------------------|-------------|-------|
| PFBA      | ND                   | 2.0        | 0.29       | 1        | 05/01/2020 16:10 | 375-22-4    | N2    |
| PFPeA     | ND                   | 2.0        | 0.25       | 1        | 05/01/2020 16:10 | 2706-90-3   | N2    |
| PFHxA     | ND                   | 2.0        | 0.35       | 1        | 05/01/2020 16:10 | 307-24-4    | N2    |
| PFHpA     | ND                   | 2.0        | 0.43       | 1        | 05/01/2020 16:10 | 375-85-9    | N2    |
| PFOA      | ND                   | 2.0        | 0.41       | 1        | 05/01/2020 16:10 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.0        | 0.56       | 1        | 05/01/2020 16:10 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.0        | 0.65       | 1        | 05/01/2020 16:10 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.0        | 0.53       | 1        | 05/01/2020 16:10 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.0        | 0.39       | 1        | 05/01/2020 16:10 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 2.0        | 0.43       | 1        | 05/01/2020 16:10 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.0        | 0.39       | 1        | 05/01/2020 16:10 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.0        | 0.23       | 1        | 05/01/2020 16:10 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.0        | 0.89       | 1        | 05/01/2020 16:10 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.0        | 0.43       | 1        | 05/01/2020 16:10 | 2355-31-9   | N2    |
| PFBS      | ND                   | 1.8        | 0.19       | 1        | 05/01/2020 16:10 | 375-73-5    | N2    |
| PFPeS     | ND                   | 1.9        | 0.35       | 1        | 05/01/2020 16:10 | 2706-91-4   | N2    |
| PFHxS     | ND                   | 1.8        | 0.36       | 1        | 05/01/2020 16:10 | 355-46-4    | N2    |
| PFHpS     | ND                   | 1.9        | 0.44       | 1        | 05/01/2020 16:10 | 375-92-8    | N2    |
| PFOS      | ND                   | 1.9        | 0.38       | 1        | 05/01/2020 16:10 | 1763-23-1   | N2    |
| PFNS      | ND                   | 1.9        | 0.44       | 1        | 05/01/2020 16:10 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.0        | 0.31       | 1        | 05/01/2020 16:10 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 1.9        | 0.56       | 1        | 05/01/2020 16:10 | 757124-72-4 | N2    |
| 6:2FTS    | ND                   | 1.9        | 0.90       | 1        | 05/01/2020 16:10 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 1.9        | 0.74       | 1        | 05/01/2020 16:10 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope DilutionBlank Analysis Summary**

|                    |              |                        |              |
|--------------------|--------------|------------------------|--------------|
| Client's Sample ID | BLKOT        | Date Extracted         | 04/28/2020   |
| Lab Sample ID      | BLANK-78934  | Total Amount Extracted | 248 mL       |
| Filename           | Q200501B_004 | ICAL ID                | 200501A01    |
| Matrix             | Water        | Starting CCal          | Q200501B_003 |
| Collected          | 04/24/2020   | Ending CCal            | Q200501B_014 |
| Received           | 04/24/2020   | Method Blank Filename  | Q200501B_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 20             | 21             | 102       | 50-150             | Pass      | 802549 |
| 13C5_PFPeA                     | 20             | 20             | 99        | 50-150             | Pass      | 619885 |
| 13C5_PFHxA                     | 20             | 20             | 98        | 50-150             | Pass      | 678991 |
| 13C4_PFHpA                     | 20             | 19             | 93        | 50-150             | Pass      | 580016 |
| 13C8_PFOA                      | 20             | 17             | 86        | 50-150             | Pass      | 593821 |
| 13C9_PFNA                      | 20             | 20             | 98        | 50-150             | Pass      | 671602 |
| 13C6_PFDA                      | 20             | 19             | 95        | 50-150             | Pass      | 524486 |
| 13C7_PFUdA                     | 20             | 19             | 92        | 50-150             | Pass      | 467248 |
| 13C2_PFDoA                     | 20             | 18             | 91        | 50-150             | Pass      | 460409 |
| 13C2_PFTeDA                    | 20             | 17             | 83        | 50-150             | Pass      | 363169 |
| d5-EtFOSAA                     | 20             | 18             | 87        | 50-150             | Pass      | 111464 |
| d3-MeFOSAA                     | 20             | 16             | 80        | 50-150             | Pass      | 86387  |
| 13C3_PFBS                      | 20             | 19             | 92        | 50-150             | Pass      | 543075 |
| 13C3_PFHxS                     | 20             | 20             | 99        | 50-150             | Pass      | 533071 |
| 13C8_PFOS                      | 20             | 18             | 91        | 50-150             | Pass      | 598349 |
| 13C8_PFOA                      | 20             | 14             | 68        | 50-150             | Pass      | 765063 |
| 13C2_4:2FTS                    | 20             | 14             | 70        | 50-150             | Pass      | 103713 |
| 13C2_6:2FTS                    | 20             | 18             | 89        | 50-150             | Pass      | 114156 |
| 13C2_8:2FTS                    | 20             | 14             | 71        | 50-150             | Pass      | 92880  |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 752476 | 394529 - 1183586 | 483327 - 1449981 | Pass      |
| 13C4_PFOS   | 628997 | 343349 - 1030047 | 396036 - 1188109 | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution Laboratory Control Sample (LCS)**

|                        |              |             |                  |
|------------------------|--------------|-------------|------------------|
| LCS Lab Sample ID      | LCS-78935    | Matrix      | Water            |
| LCS Filename           | Q200501B_005 | Dilution    | 1                |
| Total Amount Extracted | 250mL        | Extracted   | 04/28/2020       |
| ICAL ID                | 200501A01    | Analyzed    | 05/01/2020 16:36 |
| Start CCal Filename    | Q200501B_003 | Injected By | PY               |
| End CCal Filename      | Q200501B_014 |             |                  |
| Method Blank Filename  | Q200501B_004 |             |                  |

| Compound  | Spiked (ng/L) | Recovered (ng/L) | Recovery % | Limits       |
|-----------|---------------|------------------|------------|--------------|
| PFBA      | 20            | 19               | 97         | 70.0 - 130.0 |
| PFPeA     | 20            | 19               | 97         | 70.0 - 130.0 |
| PFHxA     | 20            | 19               | 93         | 70.0 - 130.0 |
| PFHpA     | 20            | 19               | 93         | 70.0 - 130.0 |
| PFOA      | 20            | 19               | 93         | 70.0 - 130.0 |
| PFNA      | 20            | 18               | 92         | 70.0 - 130.0 |
| PFDA      | 20            | 20               | 98         | 70.0 - 130.0 |
| PFUnA     | 20            | 17               | 87         | 70.0 - 130.0 |
| PFDoA     | 20            | 20               | 98         | 70.0 - 130.0 |
| PFTTrDA   | 20            | 17               | 87         | 70.0 - 130.0 |
| PFTeDA    | 20            | 20               | 102        | 70.0 - 130.0 |
| PFOSA     | 20            | 19               | 96         | 70.0 - 130.0 |
| N-EtFOSAA | 20            | 18               | 92         | 70.0 - 130.0 |
| N-MeFOSAA | 20            | 19               | 96         | 70.0 - 130.0 |
| PFBS      | 18            | 17               | 95         | 70.0 - 130.0 |
| PFPeS     | 19            | 17               | 90         | 70.0 - 130.0 |
| PFHxS     | 18            | 18               | 96         | 70.0 - 130.0 |
| PFHpS     | 19            | 20               | 106        | 70.0 - 130.0 |
| PFOS      | 19            | 18               | 95         | 70.0 - 130.0 |
| PFNS      | 19            | 19               | 99         | 70.0 - 130.0 |
| PFDS      | 19            | 19               | 98         | 70.0 - 130.0 |
| 4:2FTS    | 19            | 18               | 95         | 70.0 - 130.0 |
| 6:2FTS    | 19            | 18               | 95         | 70.0 - 130.0 |
| 8:2FTS    | 19            | 18               | 96         | 70.0 - 130.0 |



**PFAS by Isotope Dilution Laboratory Control Sample (LCS)**

LCS Lab Sample ID      LCS-78935  
 LCS Filename            Q200501B\_005

Matrix      Water

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 20             | 23             | 113       | 50-150             | Pass      | 796091 |
| 13C5_PFPeA                     | 20             | 21             | 106       | 50-150             | Pass      | 596799 |
| 13C5_PFHxA                     | 20             | 22             | 111       | 50-150             | Pass      | 684513 |
| 13C4_PFHpA                     | 20             | 21             | 105       | 50-150             | Pass      | 585456 |
| 13C8_PFOA                      | 20             | 19             | 97        | 50-150             | Pass      | 596330 |
| 13C9_PFNA                      | 20             | 20             | 100       | 50-150             | Pass      | 659539 |
| 13C6_PFDA                      | 20             | 19             | 93        | 50-150             | Pass      | 491300 |
| 13C7_PFUdA                     | 20             | 20             | 100       | 50-150             | Pass      | 486253 |
| 13C2_PFDoA                     | 20             | 18             | 90        | 50-150             | Pass      | 435634 |
| 13C2_PFTeDA                    | 20             | 15             | 76        | 50-150             | Pass      | 321237 |
| d5-EtFOSAA                     | 20             | 18             | 92        | 50-150             | Pass      | 113140 |
| d3-MeFOSAA                     | 20             | 17             | 87        | 50-150             | Pass      | 89676  |
| 13C3_PFBs                      | 20             | 21             | 103       | 50-150             | Pass      | 544425 |
| 13C3_PFHxS                     | 20             | 20             | 100       | 50-150             | Pass      | 516654 |
| 13C8_PFOS                      | 20             | 19             | 94        | 50-150             | Pass      | 594172 |
| 13C8_PFOSA                     | 20             | 16             | 81        | 50-150             | Pass      | 868148 |
| 13C2_4:2FTS                    | 20             | 15             | 73        | 50-150             | Pass      | 96502  |
| 13C2_6:2FTS                    | 20             | 16             | 80        | 50-150             | Pass      | 91059  |
| 13C2_8:2FTS                    | 20             | 15             | 75        | 50-150             | Pass      | 93712  |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 671769 | 394529 - 1183586 | 483327 - 1449981 | Pass      |
| 13C4_PFOS   | 602680 | 343349 - 1030047 | 396036 - 1188109 | Pass      |



**PFAS by Isotope Dilution Laboratory Control Sample Duplicate (LCSD)**

|                        |              |              |                  |
|------------------------|--------------|--------------|------------------|
| LCSD Lab Sample ID     | LCSD-78936   | LCS Filename | Q200501B_005     |
| LCSD Filename          | Q200501B_006 | Matrix       | Water            |
| Total Amount Extracted | 254mL        | Dilution     | 1                |
| ICAL ID                | 200501A01    | Extracted    | 04/28/2020       |
| Start CCal Filename    | Q200501B_003 | Analyzed     | 05/01/2020 17:03 |
| End CCal Filename      | Q200501B_014 | Injected By  | PY               |
| Method Blank Filename  | Q200501B_004 |              |                  |

| Compound  | Spiked<br>(ng/L) | Recovered<br>(ng/L) | Recovery<br>% | Recovery<br>Limits | RPD<br>% |
|-----------|------------------|---------------------|---------------|--------------------|----------|
| PFBA      | 20               | 19                  | 95            | 70.0 - 130.0       | 4        |
| PFPeA     | 20               | 18                  | 93            | 70.0 - 130.0       | 6        |
| PFHxA     | 20               | 18                  | 93            | 70.0 - 130.0       | 2        |
| PFHpA     | 20               | 18                  | 90            | 70.0 - 130.0       | 5        |
| PFOA      | 20               | 18                  | 93            | 70.0 - 130.0       | 1        |
| PFNA      | 20               | 19                  | 98            | 70.0 - 130.0       | 5        |
| PFDA      | 20               | 17                  | 87            | 70.0 - 130.0       | 14       |
| PFUnA     | 20               | 19                  | 97            | 70.0 - 130.0       | 10       |
| PFDoA     | 20               | 19                  | 97            | 70.0 - 130.0       | 3        |
| PFTTrDA   | 20               | 18                  | 90            | 70.0 - 130.0       | 3        |
| PFTeDA    | 20               | 19                  | 96            | 70.0 - 130.0       | 8        |
| PFOSA     | 20               | 19                  | 95            | 70.0 - 130.0       | 3        |
| N-EtFOSAA | 20               | 20                  | 103           | 70.0 - 130.0       | 9        |
| N-MeFOSAA | 20               | 17                  | 87            | 70.0 - 130.0       | 12       |
| PFBS      | 17               | 17                  | 95            | 70.0 - 130.0       | 1        |
| PFPeS     | 19               | 17                  | 92            | 70.0 - 130.0       | 1        |
| PFHxS     | 18               | 16                  | 92            | 70.0 - 130.0       | 6        |
| PFHpS     | 19               | 18                  | 98            | 70.0 - 130.0       | 10       |
| PFOS      | 18               | 17                  | 94            | 70.0 - 130.0       | 3        |
| PFNS      | 19               | 18                  | 98            | 70.0 - 130.0       | 3        |
| PFDS      | 19               | 17                  | 91            | 70.0 - 130.0       | 8        |
| 4:2FTS    | 18               | 16                  | 89            | 70.0 - 130.0       | 8        |
| 6:2FTS    | 19               | 18                  | 96            | 70.0 - 130.0       | 0        |
| 8:2FTS    | 19               | 18                  | 95            | 70.0 - 130.0       | 3        |



**PFAS by Isotope Dilution Laboratory Control Sample Duplicate (LCSD)**

LCSD Lab Sample ID      LCS Filename      Q200501B\_005  
 LCSD Filename      Q200501B\_006      Matrix      Water

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area   |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|--------|
| 13C4_PFBA                      | 20             | 22             | 113       | 50-150             | Pass      | 734537 |
| 13C5_PFPeA                     | 20             | 21             | 106       | 50-150             | Pass      | 551418 |
| 13C5_PFHxA                     | 20             | 21             | 104       | 50-150             | Pass      | 598320 |
| 13C4_PFHpA                     | 20             | 21             | 106       | 50-150             | Pass      | 550624 |
| 13C8_PFOA                      | 20             | 18             | 93        | 50-150             | Pass      | 532542 |
| 13C9_PFNA                      | 20             | 18             | 89        | 50-150             | Pass      | 546497 |
| 13C6_PFDA                      | 20             | 17             | 88        | 50-150             | Pass      | 432184 |
| 13C7_PFUdA                     | 20             | 18             | 92        | 50-150             | Pass      | 417329 |
| 13C2_PFDoA                     | 20             | 17             | 84        | 50-150             | Pass      | 379129 |
| 13C2_PFTeDA                    | 20             | 16             | 79        | 50-150             | Pass      | 308085 |
| d5-EtFOSAA                     | 20             | 16             | 81        | 50-150             | Pass      | 91857  |
| d3-MeFOSAA                     | 20             | 18             | 89        | 50-150             | Pass      | 85723  |
| 13C3_PFBs                      | 20             | 19             | 97        | 50-150             | Pass      | 474709 |
| 13C3_PFHxS                     | 20             | 19             | 96        | 50-150             | Pass      | 462654 |
| 13C8_PFOS                      | 20             | 18             | 91        | 50-150             | Pass      | 537396 |
| 13C8_PFOA                      | 20             | 15             | 77        | 50-150             | Pass      | 765628 |
| 13C2_4:2FTS                    | 20             | 15             | 74        | 50-150             | Pass      | 90044  |
| 13C2_6:2FTS                    | 20             | 16             | 81        | 50-150             | Pass      | 85916  |
| 13C2_8:2FTS                    | 20             | 14             | 72        | 50-150             | Pass      | 82990  |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 624699 | 394529 - 1183586 | 483327 - 1449981 | Pass      |
| 13C4_PFOS   | 560051 | 343349 - 1030047 | 396036 - 1188109 | Pass      |





**PFAS by Isotope Dilution Matrix Spike Sample (MS)**

|                        |                |             |                   |
|------------------------|----------------|-------------|-------------------|
| MS Lab Sample ID       | 10515804001-MS | Matrix      | Non_Potable_Water |
| MS Filename            | Q200501B_020   | Dilution    | 1                 |
| Total Amount Extracted | 245mL          | Extracted   | 04/28/2020        |
| ICAL ID                | 200428A01      | Analyzed    | 05/01/2020 23:15  |
| Start CCal Filename    | Q200501B_014   | Injected By | PY                |
| End CCal Filename      | Q200501B_025   |             |                   |
| Method Blank Filename  | Q200501B_004   |             |                   |

| Compound  | Spike (ng/L) | Sample (ng/L) | Recovered (ng/L) | Recovery % | Limits       | Flags |
|-----------|--------------|---------------|------------------|------------|--------------|-------|
| PFBA      | 20           | 0             | 18               | 89         | 70.0 - 130.0 |       |
| PFPeA     | 20           | 0             | 18               | 90         | 70.0 - 130.0 |       |
| PFHxA     | 20           | 0             | 20               | 96         | 70.0 - 130.0 |       |
| PFHpA     | 20           | 0             | 19               | 93         | 70.0 - 130.0 |       |
| PFOA      | 20           | 0             | 18               | 90         | 70.0 - 130.0 |       |
| PFNA      | 20           | 0             | 21               | 101        | 70.0 - 130.0 |       |
| PFDA      | 20           | 0             | 16               | 77         | 70.0 - 130.0 |       |
| PFUnA     | 20           | 0             | 18               | 90         | 70.0 - 130.0 |       |
| PFDoA     | 20           | 0             | 18               | 90         | 70.0 - 130.0 |       |
| PFTTrDA   | 20           | 0             | 16               | 80         | 70.0 - 130.0 |       |
| PFTeDA    | 20           | 0             | 18               | 87         | 70.0 - 130.0 |       |
| PFOSA     | 20           | 0             | 19               | 93         | 70.0 - 130.0 |       |
| N-EtFOSAA | 20           | 0             | 19               | 92         | 70.0 - 130.0 |       |
| N-MeFOSAA | 20           | 0             | 18               | 87         | 70.0 - 130.0 |       |
| PFBS      | 18           | 0             | 17               | 94         | 70.0 - 130.0 |       |
| PFPeS     | 19           | 0             | 17               | 90         | 70.0 - 130.0 |       |
| PFHxS     | 19           | 0             | 17               | 92         | 70.0 - 130.0 |       |
| PFHpS     | 19           | 0             | 18               | 92         | 70.0 - 130.0 |       |
| PFOS      | 19           | 0             | 18               | 96         | 70.0 - 130.0 |       |
| PFNS      | 20           | 0             | 19               | 99         | 70.0 - 130.0 |       |
| PFDS      | 20           | 0             | 20               | 103        | 70.0 - 130.0 |       |
| 4:2FTS    | 19           | 0             | 16               | 85         | 70.0 - 130.0 |       |
| 6:2FTS    | 19           | 0             | 21               | 109        | 70.0 - 130.0 |       |
| 8:2FTS    | 20           | 0             | 18               | 92         | 70.0 - 130.0 |       |



**PFAS by Isotope Dilution Matrix Spike Sample (MS)**

| Compound | Spike (ng/L) | Sample (ng/L) | Recovered (ng/L) | Recovery % | Limits | Flags |
|----------|--------------|---------------|------------------|------------|--------|-------|
|----------|--------------|---------------|------------------|------------|--------|-------|

MS Lab Sample ID 10515804001-MS  
 MS Filename Q200501B\_020 Matrix Non\_Potable\_Water

| Internal Standards Compound | Known Conc. | Conc. Found | %Recovery | Recovery Limits | Pass/Fail | Area   |
|-----------------------------|-------------|-------------|-----------|-----------------|-----------|--------|
| 13C4_PFBA                   | 20          | 25          | 121       | 50-150          | Pass      | 766113 |
| 13C5_PFPeA                  | 20          | 21          | 102       | 50-150          | Pass      | 584069 |
| 13C5_PFHxA                  | 20          | 17          | 83        | 50-150          | Pass      | 584427 |
| 13C4_PFHpA                  | 20          | 17          | 83        | 50-150          | Pass      | 549848 |
| 13C8_PFOA                   | 20          | 16          | 77        | 50-150          | Pass      | 583763 |
| 13C9_PFNA                   | 20          | 11          | 55        | 50-150          | Pass      | 587062 |
| 13C6_PFDA                   | 20          | 14          | 70        | 50-150          | Pass      | 547012 |
| 13C7_PFUdA                  | 20          | 14          | 68        | 50-150          | Pass      | 427600 |
| 13C2_PFDoA                  | 20          | 14          | 67        | 50-150          | Pass      | 405760 |
| 13C2_PFTeDA                 | 20          | 12          | 57        | 50-150          | Pass      | 339141 |
| d5-EtFOSAA                  | 20          | 19          | 91        | 50-150          | Pass      | 99728  |
| d3-MeFOSAA                  | 20          | 18          | 89        | 50-150          | Pass      | 89476  |
| 13C3_PFBS                   | 20          | 20          | 96        | 50-150          | Pass      | 497486 |
| 13C3_PFHxS                  | 20          | 17          | 81        | 50-150          | Pass      | 488062 |
| 13C8_PFOS                   | 20          | 17          | 82        | 50-150          | Pass      | 544996 |
| 13C8_PFOA                   | 20          | 17          | 82        | 50-150          | Pass      | 755802 |
| 13C2_4:2FTS                 | 20          | 23          | 113       | 50-150          | Pass      | 130001 |
| 13C2_6:2FTS                 | 20          | 14          | 69        | 50-150          | Pass      | 87091  |
| 13C2_8:2FTS                 | 20          | 12          | 58        | 50-150          | Pass      | 85995  |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 796957 | 432972 - 1298915 | 409987 - 1229962 | Pass      |
| 13C4_PFOS   | 637747 | 280874 - 842624  | 331227 - 993681  | Pass      |

**Report Prepared for:**

Ryann Scott  
ATC-MI  
46555 Humboldt Drive Suite 100  
Novi MI 48377

**REPORT OF  
LABORATORY  
ANALYSIS  
FOR PFAAs**

**Report Prepared Date:**

July 19, 2020

**Report Information:**

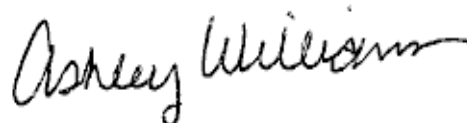
**Pace Project #: 10522940**  
**Sample Receipt Date: 06/26/2020**  
**Client Project #: NPDAX19001**  
**Client Sub PO #: N/A**  
**State Cert #: 2926.01**

**Invoicing & Reporting Options:**

The report provided has been invoiced as a Level 2 PFAA Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Kirsten Hogberg, your Pace Project Manager.

**This report has been reviewed by:**



July 20, 2020

Ashley Williams, Project Manager  
(612) 346-8158  
(612) 607-6444 (fax)  
ashley.williams@pacelabs.com



**Report of Laboratory Analysis**

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The results relate only to the samples included in this report.

## **DISCUSSION**

This report presents the results from the analyses performed on eleven samples submitted by a representative of Cardno-MI. The samples were analyzed for twenty-four perfluorinated compounds using an isotope dilution based on DoD QSM 5.1.1. Reporting limits were set to quantification limits.

Laboratory method blanks were prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blanks were free of the target perfluorinated compounds at the reporting limits. This indicates that the sample processing procedures did not significantly contribute to the analyte content determined for the sample material.

Laboratory spike samples were also prepared with the sample batch using clean reference matrix that had been fortified with native standards. The recovery results were within the method limits. The RPDs (relative percent differences) between one laboratory spike and its duplicate were within the method limits. These spikes indicate that extraction performed as expected. Matrix spikes were prepared with the sample batch using sample material from a separate project; results from that analysis will be provided upon request.

Both of the injection internal standards (13C4\_PFOA and 13C4\_PFOS) pass for each analysis in the batch verifying that the instrument detector is working as expected.

Results for selected analytes were taken from secondary dilutions of the sample extracts in order to bring the results within the calibration range or to reduce the impact of matrix effects. The affected values were flagged "D" on the results tables.

It should be noted that Pace Analytical has not yet completed the certification process for all analytes in this method. Therefore, the results have been marked "N2" as qualified.

## Minnesota Laboratory Certifications

| Authority       | Certificate #    | Authority        | Certificate #  |
|-----------------|------------------|------------------|----------------|
| A2LA            | 2926.01          | Minnesota - De   | via MN-ELAP    |
| Alabama         | 40770            | Minnesota - Pet  | 1240           |
| Alaska - DW     | MN00064          | Mississippi      | MN00064        |
| Alaska - UST    | 17-009           | Missouri - DW    | 10100          |
| Arizona         | AZ0014           | Montana          | CERT0092       |
| Arkansas - DW   | MN00064          | Nebraska         | NE-OS-18-06    |
| Arkansas - WW   | 19-039-0 (88-06) | Nevada           | MN000642020-   |
| CNMI Saipan     | MP0003           | New Hampshire    | 208120-B (2081 |
| California      | 2929             | New Jersey (NE   | NLC 190003 (M  |
| Colorado        | MN00064          | New York         | 11647          |
| Connecticut     | PH-0256          | North Carolina - | 27700          |
| EPA Region 8+   | via MN 027-053   | North Carolina - | 530            |
| Florida (NELAP) | E87605           | North Dakota     | R-036          |
| Georgia         | 959              | Ohio - DW        | 41244          |
| Guam            | 20-001R          | Ohio - VAP       | CL101          |
| Hawaii          | MN00064          | Oklahoma         | 2019-041 (9507 |
| Idaho           | MN00064          | Oregon - Primar  | MN300001-012   |
| Illinois        | 004575 (20001    | Oregon - Secon   | MN200001-013   |
| Indiana         | C-MN-01          | Pennsylvania     | 018 (68-00563) |
| Iowa            | 368              | Puerto Rico      | MN00064        |
| Kansas          | E-10167          | South Carolina   | 74003001 (740  |
| Kentucky - DW   | 90062            | Tennessee        | TN02818        |
| Kentucky - WW   | 90062            | Texas            | T104704192     |
| Louisiana - DE  | 03086 (84596)    | Utah (NELAP)     | MN000642019-   |
| Louisiana - DH  | LA006            | Vermont          | VT-027053137   |
| Louisiana - DW  | MN00064          | Virginia         | 10570 (460163) |
| Maine           | 2019018 (238)(   | Washington       | C486-20 (C486) |
| Maryland        | 322              | West Virginia -  | 382            |
| Massachusetts   | M-MN064          | West Virginia -  | 9952C          |
| Michigan        | 9909             | Wisconsin        | 999407970      |
| Minnesota       | 1857409          | Wyoming - UST    | 2926.01        |

## REPORT OF LABORATORY ANALYSIS

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# Appendix A

## Sample Management

**CHAIN-OF-CUSTODY / Analytical Request Document**

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Report No: 10522940 PFAAID\_DFR

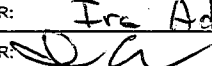
|  |  |   |  |  |  |
|--|--|---|--|--|--|
| <b>Section A</b><br>Required Client Information: |  | <b>Section B</b><br>Required Project Information: |  | <b>Section C</b><br>Invoice Information:     |  |
| Company: <b>ATC Group Services</b>               |  | Report To: <b>ryann.scott@atcgs.com</b>           |  | Attention: <b>Ryann Scott</b>                |  |
| Address: <b>46555 Humboldt Dr.</b>               |  | Copy To:  |  | Company Name: <b>ATC Group Services</b>      |  |
| City: <b>Ste 100, Novi, MI 48377</b>             |  | Purchase Order No.:                               |  | Address: <b>46555 Humboldt Dr. #100</b>      |  |
| Phone: <b>248-2863-3777</b> Fax: <b>n/a</b>      |  | Project Name: <b>Detroit Axle</b>                 |  | Pace Quote Reference: <b>Novi, MI</b>        |  |
| Requested Due Date/TAT: <b>Standard</b>          |  | Project Number: <b>NPDA19001</b>                  |  | Pace Project Manager: <b>Kirsten Hogberg</b> |  |
|  |  |   |  | Pace Profile #: <b>40707</b>                 |  |

| REGULATORY AGENCY |              |                   |
|-------------------|--------------|-------------------|
| NPDES             | GROUND WATER | DRINKING WATER    |
| UST               | RCRA         | OTHER <b>EGLE</b> |
| Site Location     |              |                   |
| STATE: <b>MI</b>  |              |                   |

| ITEM # | Section D<br>Required Client Information | Valid Matrix Codes<br>MATRIX CODE | COLLECTED       |      |                    |      | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives |                                |                  |     |      |   |          |       | Analysis Test<br>Y/N | Requested Analysis Filtered (Y/N) | Resi | Face Project No./ Lab I.D. |
|--------|--|-----------------------------------|-----------------|------|--------------------|------|---------------------------|-----------------|---------------|--------------------------------|------------------|-----|------|---|----------|-------|----------------------|-----------------------------------|------|----------------------------|
|        |  |                                   | COMPOSITE START |      | COMPOSITE END/GRAB |      |                           |                 | Unpreserved   | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | NaOH | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> | Methanol | Other |                      |                                   |      |                            |
|        |  |                                   | DATE            | TIME | DATE               | TIME |                           |                 |               |                                |                  |     |      |   |          |       |                      |                                   |      |                            |
| 1      | MW-116                                   | MWG                               | 6/24            | 1559 |                    |      | 2                         | X               |               |                                |                  |     |      |   |          |       |                      | 001                               |      |                            |
| 2      | MW-117                                   |                                   |                 | 0943 |                    |      | 1                         | X               |               |                                |                  |     |      |   |          |       |                      | 002                               |      |                            |
| 3      | MW-118                                   |                                   |                 | 1010 |                    |      | 1                         | X               |               |                                |                  |     |      |   |          |       |                      | 003                               |      |                            |
| 4      | MW-122                                   |                                   |                 | 1345 |                    |      | 1                         | X               |               |                                |                  |     |      |   |          |       |                      | 004                               |      |                            |
| 5      | MW-127                                   |                                   |                 | 1250 |                    |      | 1                         | X               |               |                                |                  |     |      |   |          |       |                      | 005                               |      |                            |
| 6      | MW-128                                   |                                   |                 | 1110 |                    |      | 1                         | X               |               |                                |                  |     |      |   |          |       |                      | 006                               |      |                            |
| 7      | MW-129                                   |                                   |                 | 1210 |                    |      | 1                         | X               |               |                                |                  |     |      |   |          |       |                      | 007                               |      |                            |
| 8      | MW-131                                   |                                   |                 | 1456 |                    |      | 1                         | X               |               |                                |                  |     |      |   |          |       |                      | 008                               |      |                            |
| 9      | Dup 2                                    |                                   |                 | 0000 |                    |      | 1                         | X               |               |                                |                  |     |      |   |          |       |                      | 009                               |      |                            |
| 10     | Trip Blank                               |                                   |                 | 0500 |                    |      | 1                         | X               |               |                                |                  |     |      |   |          |       |                      | 010                               |      |                            |
| 11     | Field Blank                              |                                   |                 | 1100 |                    |      | 1                         | X               |               |                                |                  |     |      |   |          |       |                      | 011                               |      |                            |
| 12     |  |                                   |                 |      |                    |      |                           |                 |               |                                |                  |     |      |   |          |       |                      |                                   |      |                            |

**WO#: 10522940**  
  
10522940

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE    | TIME | ACCEPTED BY / AFFILIATION | DATE    | TIME | SAMPLE CONDITIONS |   |   |   |  |
|---------------------|-------------------------------|---------|------|---------------------------|---------|------|-------------------|---|---|---|--|
|                     | Ira Adolphus / ATC            | 6/25/20 | 1130 | [Signature] / Pace        | 6/26/20 | 0850 | 19                | Y | N | Y |  |

|   |  |            |                       |                             |                      |
|---|--|------------|-----------------------|-----------------------------|----------------------|
| <b>SAMPLER NAME AND SIGNATURE</b>   |  | Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
| PRINT Name of SAMPLER: <b>Ira Adolphus</b>  |  |            |                       |                             |                      |
| SIGNATURE of SAMPLER:  |  |            |                       |                             |                      |
| DATE Signed (MM/DD/YY): <b>6/25/20</b>  |  |            |                       |                             |                      |

|                                      |  |                   |                       |
|--------------------------------------|--|-------------------|-----------------------|
| <b>Sample Condition Upon Receipt</b> | Client Name: <u>ATC</u>  | Project #:        | <b>WO# : 10522940</b> |
| Courier:                             | <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Client<br><input type="checkbox"/> Pace <input type="checkbox"/> SpeedDee <input type="checkbox"/> Commercial <input type="checkbox"/> See Exceptions | PM: KNH           | Due Date: 07/20/20    |
| Tracking Number:                     | <u>1456 22W15908</u>   | CLIENT: Cardno-MI |                       |

Custody Seal on Cooler/Box Present?  Yes  No    Seals Intact?  Yes  No    Biological Tissue Frozen?  Yes  No  N/A

Packing Material:  Bubble Wrap     Bubble Bags     None     Other: PB    Temp Blank?  Yes  No

Thermometer:  T1(0461)     T2(1336)     T3(0459)     T4(0254)     T5(0489)    Type of Ice:  Wet     Blue     None     Dry     Melted

|   |  |
|---|--|
| Did Samples Originate in West Virginia? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Were All Container Temps Taken? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Temp should be above freezing to 6°C    Cooler Temp Read w/temp blank: <u>1.9</u> °C                        | Average Corrected Temp (no temp blank only): <input type="checkbox"/> See Exceptions <input type="checkbox"/> 1 Container        |
| Correction Factor: <u>1.04</u> Cooler Temp Corrected w/temp blank: <u>1.9</u> °C                            |  |

USDA Regulated Soil: ( N/A, water sample/Other: \_\_\_\_\_)    Date/Initials of Person Examining Contents: 8/6/20/20

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?  Yes  No    Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

**If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.**

|   | COMMENTS:   |
|---|---|
| Chain of Custody Present and Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 1.  |
| Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 2.  |
| Sampler Name and/or Signature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A  | 3.  |
| Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   | 4.  |
| Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | 5. <input type="checkbox"/> Fecal Coliform <input type="checkbox"/> HPC <input type="checkbox"/> Total Coliform/E coli <input type="checkbox"/> BOD/cBOD <input type="checkbox"/> Hex Chrome <input type="checkbox"/> Turbidity <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Orthophos <input type="checkbox"/> Other |
| Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | 6.  |
| Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 7.  |
| Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 8.  |
| -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  |   |
| Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 9.  |
| Field Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A  | 10. Is sediment visible in the dissolved container? <input type="checkbox"/> Yes <input type="checkbox"/> No  |
| Is sufficient information available to reconcile the samples to the COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | 11. If no, write ID/ Date/Time on Container Below: <input type="checkbox"/> See Exception   |
| Matrix: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other   |   |
| All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A   | 12. Sample #  |
| All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | <input type="checkbox"/> NaOH <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> Zinc Acetate   |
| Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A  | Positive for Res. <input type="checkbox"/> Yes <input type="checkbox"/> No    pH Paper Lot# <input type="checkbox"/> See Exception  |
|   | Res. Chlorine    0-6 Roll    0-6 Strip    0-14 Strip  |
| Extra labels present on soil VOA or WIDRO containers? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A  | 13. <input type="checkbox"/> See Exception  |
| Headspace in VOA Vials (greater than 6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A   |   |
| Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A  | 14.   |
| Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A  | Pace Trip Blank Lot # (if purchased): _____   |

**CLIENT NOTIFICATION/RESOLUTION**    Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

**Project Manager Review:** Kristen Heffern    Date: 6/26/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).



## Reporting Flags

- A = Reporting Limit based on signal to noise
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Interference present
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- \* = See Discussion

### REPORT OF LABORATORY ANALYSIS

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# **Appendix B**

## Sample Analysis Summary



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-116          | Date Extracted         | 07/09/2020   |
| Lab Sample ID      | 10522940001-R   | Total Amount Extracted | 123 mL       |
| Filename           | Q200713C_053    | ICAL ID                | 200713B01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200713C_049 |
| Collected          | 06/24/2020      | Ending CCal            | Q200713C_057 |
| Received           | 06/26/2020      | Method Blank Filename  | Q200713C_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed         | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|------------------|-------------|-------|
| PFBA      | 6.2                  | 4.1        | 0.59       | 1        | 07/14/2020 17:49 | 375-22-4    | N2    |
| PFPeA     | ND                   | 4.1        | 0.51       | 1        | 07/14/2020 17:49 | 2706-90-3   | N2    |
| PFHxA     | 4.1                  | 4.1        | 0.71       | 1        | 07/14/2020 17:49 | 307-24-4    | N2    |
| PFHpA     | ND                   | 4.1        | 0.86       | 1        | 07/14/2020 17:49 | 375-85-9    | N2    |
| PFOA      | 5.6                  | 4.1        | 0.83       | 1        | 07/14/2020 17:49 | 335-67-1    | N2    |
| PFNA      | ND                   | 4.1        | 1.1        | 1        | 07/14/2020 17:49 | 375-95-1    | N2    |
| PFDA      | ND                   | 4.1        | 1.3        | 1        | 07/14/2020 17:49 | 335-76-2    | N2    |
| PFUnA     | ND                   | 4.1        | 1.1        | 1        | 07/14/2020 17:49 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 4.1        | 0.78       | 1        | 07/14/2020 17:49 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 4.1        | 0.86       | 1        | 07/14/2020 17:49 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 4.1        | 0.78       | 1        | 07/14/2020 17:49 | 376-06-7    | N2    |
| PFOSA     | ND                   | 4.1        | 0.46       | 1        | 07/14/2020 17:49 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 4.1        | 1.8        | 1        | 07/14/2020 17:49 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 4.1        | 0.86       | 1        | 07/14/2020 17:49 | 2355-31-9   | N2    |
| PFBS      | ND                   | 3.6        | 0.39       | 1        | 07/14/2020 17:49 | 375-73-5    | N2    |
| PFPeS     | ND                   | 3.8        | 0.71       | 1        | 07/14/2020 17:49 | 2706-91-4   | N2    |
| PFHxS     | ND                   | 3.7        | 0.73       | 1        | 07/14/2020 17:49 | 355-46-4    | N2    |
| PFHpS     | ND                   | 3.9        | 0.89       | 1        | 07/14/2020 17:49 | 375-92-8    | N2    |
| PFOS      | ND                   | 3.8        | 0.76       | 1        | 07/14/2020 17:49 | 1763-23-1   | N2    |
| PFNS      | ND                   | 3.9        | 0.89       | 1        | 07/14/2020 17:49 | 68259-12-1  | N2    |
| PFDS      | ND                   | 3.9        | 0.63       | 1        | 07/14/2020 17:49 | 335-77-3    | N2    |
| 4:2FTS    | ND D                 | 38         | 11         | 10       | 07/15/2020 23:23 | 757124-72-4 | N2    |
| 6:2FTS    | 74 D                 | 39         | 18         | 10       | 07/15/2020 23:23 | 27619-97-2  | N2    |
| 8:2FTS    | ND D                 | 39         | 15         | 10       | 07/15/2020 23:23 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-116          | Date Extracted         | 07/09/2020   |
| Lab Sample ID      | 10522940001-R   | Total Amount Extracted | 123 mL       |
| Filename           | Q200713C_053    | ICAL ID                | 200713B01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200713C_049 |
| Collected          | 06/24/2020      | Ending CCal            | Q200713C_057 |
| Received           | 06/26/2020      | Method Blank Filename  | Q200713C_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area    |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|---------|
| 13C4_PFBA                      | 41             | 31             | 77        | 50-150             | Pass      | 1012829 |
| 13C5_PFPeA                     | 41             | 32             | 79        | 50-150             | Pass      | 760891  |
| 13C5_PFHxA                     | 41             | 32             | 78        | 50-150             | Pass      | 754233  |
| 13C4_PFHpA                     | 41             | 36             | 88        | 50-150             | Pass      | 741216  |
| 13C8_PFOA                      | 41             | 40             | 98        | 50-150             | Pass      | 926485  |
| 13C9_PFNA                      | 41             | 42             | 102       | 50-150             | Pass      | 955097  |
| 13C6_PFDA                      | 41             | 43             | 105       | 50-150             | Pass      | 828674  |
| 13C7_PFUdA                     | 41             | 39             | 96        | 50-150             | Pass      | 717144  |
| 13C2_PFDoA                     | 41             | 39             | 97        | 50-150             | Pass      | 706727  |
| 13C2_PFTeDA                    | 41             | 36             | 90        | 50-150             | Pass      | 519885  |
| d5-EtFOSAA                     | 41             | 39             | 96        | 50-150             | Pass      | 185068  |
| d3-MeFOSAA                     | 41             | 25             | 61        | 50-150             | Pass      | 100163  |
| 13C3_PFBS                      | 41             | 37             | 90        | 50-150             | Pass      | 674640  |
| 13C3_PFHxS                     | 41             | 38             | 93        | 50-150             | Pass      | 627825  |
| 13C8_PFOS                      | 41             | 38             | 93        | 50-150             | Pass      | 791485  |
| 13C8_PFOA                      | 41             | 34             | 83        | 50-150             | Pass      | 1290922 |
| 13C2_4:2FTS                    | 41             | 51             | 126       | 50-150             | Pass      | 22365   |
| 13C2_6:2FTS                    | 41             | 41             | 101       | 50-150             | Pass      | 17774   |
| 13C2_8:2FTS                    | 41             | 39             | 95        | 50-150             | Pass      | 18862   |

**Injection Internal Standards**

| IS Compound | Area    | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|---------|------------------|------------------|-----------|
| 13C4_PFOA   | 1213770 | 574385 - 1723154 | 605532 - 1816597 | Pass      |
| 13C4_PFOS   | 972506  | 464830 - 1394490 | 490487 - 1471462 | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-117          | Date Extracted         | 07/09/2020   |
| Lab Sample ID      | 10522940002-R   | Total Amount Extracted | 234 mL       |
| Filename           | Q200713C_052    | ICAL ID                | 200713B01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200713C_049 |
| Collected          | 06/24/2020      | Ending CCal            | Q200713C_057 |
| Received           | 06/26/2020      | Method Blank Filename  | Q200713C_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed         | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|------------------|-------------|-------|
| PFBA      | 5.0                  | 2.1        | 0.31       | 1        | 07/14/2020 17:22 | 375-22-4    | N2    |
| PFPeA     | 4.3                  | 2.1        | 0.27       | 1        | 07/14/2020 17:22 | 2706-90-3   | N2    |
| PFHxA     | 4.4                  | 2.1        | 0.37       | 1        | 07/14/2020 17:22 | 307-24-4    | N2    |
| PFHpA     | 3.4                  | 2.1        | 0.45       | 1        | 07/14/2020 17:22 | 375-85-9    | N2    |
| PFOA      | 6.1                  | 2.1        | 0.44       | 1        | 07/14/2020 17:22 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.1        | 0.59       | 1        | 07/14/2020 17:22 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.1        | 0.69       | 1        | 07/14/2020 17:22 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.1        | 0.56       | 1        | 07/14/2020 17:22 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.1        | 0.41       | 1        | 07/14/2020 17:22 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 2.1        | 0.45       | 1        | 07/14/2020 17:22 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.1        | 0.41       | 1        | 07/14/2020 17:22 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.1        | 0.24       | 1        | 07/14/2020 17:22 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.1        | 0.94       | 1        | 07/14/2020 17:22 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.1        | 0.45       | 1        | 07/14/2020 17:22 | 2355-31-9   | N2    |
| PFBS      | 10                   | 1.9        | 0.21       | 1        | 07/14/2020 17:22 | 375-73-5    | N2    |
| PFPeS     | ND                   | 2.0        | 0.37       | 1        | 07/14/2020 17:22 | 2706-91-4   | N2    |
| PFHxS     | 3.5                  | 2.0        | 0.38       | 1        | 07/14/2020 17:22 | 355-46-4    | N2    |
| PFHpS     | ND                   | 2.0        | 0.47       | 1        | 07/14/2020 17:22 | 375-92-8    | N2    |
| PFOS      | ND                   | 2.0        | 0.40       | 1        | 07/14/2020 17:22 | 1763-23-1   | N2    |
| PFNS      | ND                   | 2.1        | 0.47       | 1        | 07/14/2020 17:22 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.1        | 0.33       | 1        | 07/14/2020 17:22 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 2.0        | 0.59       | 1        | 07/14/2020 17:22 | 757124-72-4 | N2    |
| 6:2FTS    | 33                   | 2.0        | 0.95       | 1        | 07/14/2020 17:22 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 2.1        | 0.78       | 1        | 07/14/2020 17:22 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-117          | Date Extracted         | 07/09/2020   |
| Lab Sample ID      | 10522940002-R   | Total Amount Extracted | 234 mL       |
| Filename           | Q200713C_052    | ICAL ID                | 200713B01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200713C_049 |
| Collected          | 06/24/2020      | Ending CCal            | Q200713C_057 |
| Received           | 06/26/2020      | Method Blank Filename  | Q200713C_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area    |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|---------|
| 13C4_PFBA                      | 21             | 16             | 77        | 50-150             | Pass      | 997822  |
| 13C5_PFPeA                     | 21             | 18             | 84        | 50-150             | Pass      | 785359  |
| 13C5_PFHxA                     | 21             | 19             | 87        | 50-150             | Pass      | 828035  |
| 13C4_PFHpA                     | 21             | 20             | 92        | 50-150             | Pass      | 760665  |
| 13C8_PFOA                      | 21             | 20             | 93        | 50-150             | Pass      | 866604  |
| 13C9_PFNA                      | 21             | 21             | 97        | 50-150             | Pass      | 825522  |
| 13C6_PFDA                      | 21             | 21             | 96        | 50-150             | Pass      | 694432  |
| 13C7_PFUdA                     | 21             | 20             | 94        | 50-150             | Pass      | 639731  |
| 13C2_PFDoA                     | 21             | 19             | 91        | 50-150             | Pass      | 605690  |
| 13C2_PFTeDA                    | 21             | 17             | 78        | 50-150             | Pass      | 412069  |
| d5-EtFOSAA                     | 21             | 18             | 84        | 50-150             | Pass      | 146641  |
| d3-MeFOSAA                     | 21             | 20             | 91        | 50-150             | Pass      | 137348  |
| 13C3_PFBS                      | 21             | 18             | 86        | 50-150             | Pass      | 634997  |
| 13C3_PFHxS                     | 21             | 20             | 92        | 50-150             | Pass      | 565064  |
| 13C8_PFOS                      | 21             | 20             | 94        | 50-150             | Pass      | 730247  |
| 13C8_PFOA                      | 21             | 19             | 89        | 50-150             | Pass      | 1265911 |
| 13C2_4:2FTS                    | 21             | 27             | 125       | 50-150             | Pass      | 222468  |
| 13C2_6:2FTS                    | 21             | 22             | 102       | 50-150             | Pass      | 180258  |
| 13C2_8:2FTS                    | 21             | 18             | 86        | 50-150             | Pass      | 164053  |

**Injection Internal Standards**

| IS Compound | Area    | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|---------|------------------|------------------|-----------|
| 13C4_PFOA   | 1191427 | 574385 - 1723154 | 605532 - 1816597 | Pass      |
| 13C4_PFOS   | 886893  | 464830 - 1394490 | 490487 - 1471462 | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-118          | Date Extracted         | 07/09/2020   |
| Lab Sample ID      | 10522940003-R   | Total Amount Extracted | 239 mL       |
| Filename           | Q200713C_051    | ICAL ID                | 200713B01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200713C_049 |
| Collected          | 06/24/2020      | Ending CCal            | Q200713C_057 |
| Received           | 06/26/2020      | Method Blank Filename  | Q200713C_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed         | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|------------------|-------------|-------|
| PFBA      | 5.5                  | 2.1        | 0.31       | 1        | 07/14/2020 16:56 | 375-22-4    | N2    |
| PFPeA     | 2.3                  | 2.1        | 0.26       | 1        | 07/14/2020 16:56 | 2706-90-3   | N2    |
| PFHxA     | 2.4                  | 2.1        | 0.36       | 1        | 07/14/2020 16:56 | 307-24-4    | N2    |
| PFHpA     | ND                   | 2.1        | 0.44       | 1        | 07/14/2020 16:56 | 375-85-9    | N2    |
| PFOA      | 5.8                  | 2.1        | 0.43       | 1        | 07/14/2020 16:56 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.1        | 0.58       | 1        | 07/14/2020 16:56 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.1        | 0.67       | 1        | 07/14/2020 16:56 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.1        | 0.55       | 1        | 07/14/2020 16:56 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.1        | 0.40       | 1        | 07/14/2020 16:56 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 2.1        | 0.44       | 1        | 07/14/2020 16:56 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.1        | 0.40       | 1        | 07/14/2020 16:56 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.1        | 0.24       | 1        | 07/14/2020 16:56 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.1        | 0.92       | 1        | 07/14/2020 16:56 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.1        | 0.44       | 1        | 07/14/2020 16:56 | 2355-31-9   | N2    |
| PFBS      | 5.7                  | 1.9        | 0.20       | 1        | 07/14/2020 16:56 | 375-73-5    | N2    |
| PFPeS     | ND                   | 2.0        | 0.36       | 1        | 07/14/2020 16:56 | 2706-91-4   | N2    |
| PFHxS     | 4.2                  | 1.9        | 0.37       | 1        | 07/14/2020 16:56 | 355-46-4    | N2    |
| PFHpS     | ND                   | 2.0        | 0.46       | 1        | 07/14/2020 16:56 | 375-92-8    | N2    |
| PFOS      | ND                   | 1.9        | 0.39       | 1        | 07/14/2020 16:56 | 1763-23-1   | N2    |
| PFNS      | ND                   | 2.0        | 0.46       | 1        | 07/14/2020 16:56 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.0        | 0.32       | 1        | 07/14/2020 16:56 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 2.0        | 0.58       | 1        | 07/14/2020 16:56 | 757124-72-4 | N2    |
| 6:2FTS    | 13                   | 2.0        | 0.93       | 1        | 07/14/2020 16:56 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 2.0        | 0.76       | 1        | 07/14/2020 16:56 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-118          | Date Extracted         | 07/09/2020   |
| Lab Sample ID      | 10522940003-R   | Total Amount Extracted | 239 mL       |
| Filename           | Q200713C_051    | ICAL ID                | 200713B01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200713C_049 |
| Collected          | 06/24/2020      | Ending CCal            | Q200713C_057 |
| Received           | 06/26/2020      | Method Blank Filename  | Q200713C_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area    |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|---------|
| 13C4_PFBA                      | 21             | 19             | 90        | 50-150             | Pass      | 1134464 |
| 13C5_PFPeA                     | 21             | 19             | 91        | 50-150             | Pass      | 836738  |
| 13C5_PFHxA                     | 21             | 19             | 90        | 50-150             | Pass      | 841787  |
| 13C4_PFHpA                     | 21             | 20             | 94        | 50-150             | Pass      | 757662  |
| 13C8_PFOA                      | 21             | 19             | 92        | 50-150             | Pass      | 833390  |
| 13C9_PFNA                      | 21             | 20             | 94        | 50-150             | Pass      | 829170  |
| 13C6_PFDA                      | 21             | 20             | 94        | 50-150             | Pass      | 701453  |
| 13C7_PFUdA                     | 21             | 19             | 90        | 50-150             | Pass      | 630898  |
| 13C2_PFDoA                     | 21             | 18             | 84        | 50-150             | Pass      | 582402  |
| 13C2_PFTeDA                    | 21             | 16             | 78        | 50-150             | Pass      | 429874  |
| d5-EtFOSAA                     | 21             | 17             | 79        | 50-150             | Pass      | 144474  |
| d3-MeFOSAA                     | 21             | 19             | 91        | 50-150             | Pass      | 142163  |
| 13C3_PFBS                      | 21             | 19             | 90        | 50-150             | Pass      | 646249  |
| 13C3_PFHxS                     | 21             | 20             | 94        | 50-150             | Pass      | 599574  |
| 13C8_PFOS                      | 21             | 19             | 90        | 50-150             | Pass      | 722502  |
| 13C8_PFOA                      | 21             | 15             | 73        | 50-150             | Pass      | 1079801 |
| 13C2_4:2FTS                    | 21             | 24             | 112       | 50-150             | Pass      | 195255  |
| 13C2_6:2FTS                    | 21             | 20             | 95        | 50-150             | Pass      | 165236  |
| 13C2_8:2FTS                    | 21             | 18             | 86        | 50-150             | Pass      | 169857  |

**Injection Internal Standards**

| IS Compound | Area    | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|---------|------------------|------------------|-----------|
| 13C4_PFOA   | 1163195 | 574385 - 1723154 | 605532 - 1816597 | Pass      |
| 13C4_PFOS   | 920151  | 464830 - 1394490 | 490487 - 1471462 | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.





**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-122          | Date Extracted         | 07/07/2020   |
| Lab Sample ID      | 10522940004     | Total Amount Extracted | 111 mL       |
| Filename           | Q200708C_008    | ICAL ID                | 200626A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200708C_002 |
| Collected          | 06/24/2020      | Ending CCal            | Q200708C_013 |
| Received           | 06/26/2020      | Method Blank Filename  | Q200708C_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed        | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|-----------------|-------------|-------|
| PFBA      | 6.8                  | 4.5        | 0.66       | 1        | 07/08/202023:55 | 375-22-4    | N2    |
| PFPeA     | 9.9                  | 4.5        | 0.57       | 1        | 07/08/202023:55 | 2706-90-3   | N2    |
| PFHxA     | 11                   | 4.5        | 0.79       | 1        | 07/08/202023:55 | 307-24-4    | N2    |
| PFHpA     | 8.7                  | 4.5        | 0.96       | 1        | 07/08/202023:55 | 375-85-9    | N2    |
| PFOA      | 22                   | 4.5        | 0.92       | 1        | 07/08/202023:55 | 335-67-1    | N2    |
| PFNA      | ND                   | 4.5        | 1.3        | 1        | 07/08/202023:55 | 375-95-1    | N2    |
| PFDA      | ND                   | 4.5        | 1.4        | 1        | 07/08/202023:55 | 335-76-2    | N2    |
| PFUnA     | ND                   | 4.5        | 1.2        | 1        | 07/08/202023:55 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 4.5        | 0.87       | 1        | 07/08/202023:55 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 4.5        | 0.96       | 1        | 07/08/202023:55 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 4.5        | 0.87       | 1        | 07/08/202023:55 | 376-06-7    | N2    |
| PFOSA     | ND                   | 4.5        | 0.51       | 1        | 07/08/202023:55 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 4.5        | 2.0        | 1        | 07/08/202023:55 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 4.5        | 0.95       | 1        | 07/08/202023:55 | 2355-31-9   | N2    |
| PFBS      | 4.1                  | 4.0        | 0.43       | 1        | 07/08/202023:55 | 375-73-5    | N2    |
| PFPeS     | ND                   | 4.2        | 0.79       | 1        | 07/08/202023:55 | 2706-91-4   | N2    |
| PFHxS     | 4.2                  | 4.1        | 0.81       | 1        | 07/08/202023:55 | 355-46-4    | N2    |
| PFHpS     | ND                   | 4.3        | 0.99       | 1        | 07/08/202023:55 | 375-92-8    | N2    |
| PFOS      | ND                   | 4.2        | 0.85       | 1        | 07/08/202023:55 | 1763-23-1   | N2    |
| PFNS      | ND                   | 4.3        | 0.99       | 1        | 07/08/202023:55 | 68259-12-1  | N2    |
| PFDS      | ND                   | 4.4        | 0.70       | 1        | 07/08/202023:55 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 4.2        | 1.3        | 1        | 07/08/202023:55 | 757124-72-4 | N2    |
| 6:2FTS    | 15                   | 4.3        | 2.0        | 1        | 07/08/202023:55 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 4.3        | 1.7        | 1        | 07/08/202023:55 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-122          | Date Extracted         | 07/07/2020   |
| Lab Sample ID      | 10522940004     | Total Amount Extracted | 111 mL       |
| Filename           | Q200708C_008    | ICAL ID                | 200626A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200708C_002 |
| Collected          | 06/24/2020      | Ending CCal            | Q200708C_013 |
| Received           | 06/26/2020      | Method Blank Filename  | Q200708C_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area    |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|---------|
| 13C4_PFBA                      | 45             | 40             | 88        | 50-150             | Pass      | 1137046 |
| 13C5_PFPeA                     | 45             | 42             | 93        | 50-150             | Pass      | 854596  |
| 13C5_PFHxA                     | 45             | 44             | 97        | 50-150             | Pass      | 868672  |
| 13C4_PFHpA                     | 45             | 43             | 95        | 50-150             | Pass      | 751256  |
| 13C8_PFOA                      | 45             | 44             | 98        | 50-150             | Pass      | 808721  |
| 13C9_PFNA                      | 45             | 51             | 112       | 50-150             | Pass      | 792848  |
| 13C6_PFDA                      | 45             | 56             | 124       | 50-150             | Pass      | 722487  |
| 13C7_PFUdA                     | 45             | 57             | 125       | 50-150             | Pass      | 617969  |
| 13C2_PFDoA                     | 45             | 64             | 141       | 50-150             | Pass      | 708799  |
| 13C2_PFTeDA                    | 45             | 51             | 114       | 50-150             | Pass      | 429172  |
| d5-EtFOSAA                     | 45             | 43             | 95        | 50-150             | Pass      | 149860  |
| d3-MeFOSAA                     | 45             | 45             | 100       | 50-150             | Pass      | 123608  |
| 13C3_PFBS                      | 45             | 41             | 90        | 50-150             | Pass      | 664582  |
| 13C3_PFHxS                     | 45             | 44             | 98        | 50-150             | Pass      | 586590  |
| 13C8_PFOS                      | 45             | 45             | 100       | 50-150             | Pass      | 731817  |
| 13C8_PFOA                      | 45             | 53             | 117       | 50-150             | Pass      | 1285710 |
| 13C2_4:2FTS                    | 45             | 63             | 139       | 50-150             | Pass      | 198292  |
| 13C2_6:2FTS                    | 45             | 53             | 116       | 50-150             | Pass      | 170125  |
| 13C2_8:2FTS                    | 45             | 58             | 128       | 50-150             | Pass      | 176090  |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 985307 | 544794 - 1634382 | 556927 - 1670781 | Pass      |
| 13C4_PFOS   | 769774 | 479924 - 1439772 | 455898 - 1367694 | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
**Sample Analysis Summary**

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-127          | Date Extracted         | 07/07/2020   |
| Lab Sample ID      | 10522940005     | Total Amount Extracted | 108 mL       |
| Filename           | Q200708C_009    | ICAL ID                | 200626A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200708C_002 |
| Collected          | 06/24/2020      | Ending CCal            | Q200708C_013 |
| Received           | 06/26/2020      | Method Blank Filename  | Q200708C_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed        | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|-----------------|-------------|-------|
| PFBA      | 6.2                  | 4.6        | 0.68       | 1        | 07/09/202000:21 | 375-22-4    | N2    |
| PFPeA     | ND                   | 4.6        | 0.58       | 1        | 07/09/202000:21 | 2706-90-3   | N2    |
| PFHxA     | 7.8                  | 4.6        | 0.81       | 1        | 07/09/202000:21 | 307-24-4    | N2    |
| PFHpA     | 6.5                  | 4.6        | 0.98       | 1        | 07/09/202000:21 | 375-85-9    | N2    |
| PFOA      | 27                   | 4.6        | 0.94       | 1        | 07/09/202000:21 | 335-67-1    | N2    |
| PFNA      | ND                   | 4.6        | 1.3        | 1        | 07/09/202000:21 | 375-95-1    | N2    |
| PFDA      | ND                   | 4.6        | 1.5        | 1        | 07/09/202000:21 | 335-76-2    | N2    |
| PFUnA     | ND                   | 4.6        | 1.2        | 1        | 07/09/202000:21 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 4.6        | 0.89       | 1        | 07/09/202000:21 | 307-55-1    | N2    |
| PFTrDA    | ND                   | 4.6        | 0.98       | 1        | 07/09/202000:21 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 4.6        | 0.89       | 1        | 07/09/202000:21 | 376-06-7    | N2    |
| PFOSA     | ND                   | 4.6        | 0.53       | 1        | 07/09/202000:21 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 4.6        | 2.0        | 1        | 07/09/202000:21 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 4.6        | 0.98       | 1        | 07/09/202000:21 | 2355-31-9   | N2    |
| PFBS      | ND                   | 4.1        | 0.45       | 1        | 07/09/202000:21 | 375-73-5    | N2    |
| PFPeS     | ND                   | 4.4        | 0.81       | 1        | 07/09/202000:21 | 2706-91-4   | N2    |
| PFHxS     | 8.4                  | 4.2        | 0.83       | 1        | 07/09/202000:21 | 355-46-4    | N2    |
| PFHpS     | ND                   | 4.4        | 1.0        | 1        | 07/09/202000:21 | 375-92-8    | N2    |
| PFOS      | 18                   | 4.3        | 0.87       | 1        | 07/09/202000:21 | 1763-23-1   | N2    |
| PFNS      | ND                   | 4.5        | 1.0        | 1        | 07/09/202000:21 | 68259-12-1  | N2    |
| PFDS      | ND                   | 4.5        | 0.72       | 1        | 07/09/202000:21 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 4.3        | 1.3        | 1        | 07/09/202000:21 | 757124-72-4 | N2    |
| 6:2FTS    | 6.6                  | 4.4        | 2.1        | 1        | 07/09/202000:21 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 4.5        | 1.7        | 1        | 07/09/202000:21 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-127          | Date Extracted         | 07/07/2020   |
| Lab Sample ID      | 10522940005     | Total Amount Extracted | 108 mL       |
| Filename           | Q200708C_009    | ICAL ID                | 200626A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200708C_002 |
| Collected          | 06/24/2020      | Ending CCal            | Q200708C_013 |
| Received           | 06/26/2020      | Method Blank Filename  | Q200708C_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area    |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|---------|
| 13C4_PFBA                      | 46             | 45             | 97        | 50-150             | Pass      | 1134235 |
| 13C5_PFPeA                     | 46             | 48             | 104       | 50-150             | Pass      | 857424  |
| 13C5_PFHxA                     | 46             | 47             | 100       | 50-150             | Pass      | 812678  |
| 13C4_PFHpA                     | 46             | 49             | 106       | 50-150             | Pass      | 753091  |
| 13C8_PFOA                      | 46             | 48             | 104       | 50-150             | Pass      | 774709  |
| 13C9_PFNA                      | 46             | 59             | 127       | 50-150             | Pass      | 831193  |
| 13C6_PFDA                      | 46             | 53             | 115       | 50-150             | Pass      | 616656  |
| 13C7_PFUdA                     | 46             | 57             | 122       | 50-150             | Pass      | 555596  |
| 13C2_PFDoA                     | 46             | 69             | 149       | 50-150             | Pass      | 686538  |
| 13C2_PFTeDA                    | 46             | 58             | 126       | 50-150             | Pass      | 438281  |
| d5-EtFOSAA                     | 46             | 45             | 96        | 50-150             | Pass      | 138908  |
| d3-MeFOSAA                     | 46             | 48             | 103       | 50-150             | Pass      | 116396  |
| 13C3_PFBS                      | 46             | 45             | 97        | 50-150             | Pass      | 645244  |
| 13C3_PFHxS                     | 46             | 50             | 107       | 50-150             | Pass      | 591446  |
| 13C8_PFOS                      | 46             | 49             | 105       | 50-150             | Pass      | 710053  |
| 13C8_PFOA                      | 46             | 60             | 130       | 50-150             | Pass      | 1317765 |
| 13C2_4:2FTS                    | 46             | 65             | 140       | 50-150             | Pass      | 180468  |
| 13C2_6:2FTS                    | 46             | 59             | 127       | 50-150             | Pass      | 167077  |
| 13C2_8:2FTS                    | 46             | 59             | 127       | 50-150             | Pass      | 161832  |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 888909 | 544794 - 1634382 | 556927 - 1670781 | Pass      |
| 13C4_PFOS   | 709142 | 479924 - 1439772 | 455898 - 1367694 | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-128          | Date Extracted         | 07/07/2020   |
| Lab Sample ID      | 10522940006     | Total Amount Extracted | 245 mL       |
| Filename           | Q200708C_010    | ICAL ID                | 200626A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200708C_002 |
| Collected          | 06/24/2020      | Ending CCal            | Q200708C_013 |
| Received           | 06/26/2020      | Method Blank Filename  | Q200708C_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed        | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|-----------------|-------------|-------|
| PFBA      | 13                   | 2.0        | 0.30       | 1        | 07/09/202000:48 | 375-22-4    | N2    |
| PFPeA     | 19                   | 2.0        | 0.26       | 1        | 07/09/202000:48 | 2706-90-3   | N2    |
| PFHxA     | 24                   | 2.0        | 0.36       | 1        | 07/09/202000:48 | 307-24-4    | N2    |
| PFHpA     | 19                   | 2.0        | 0.43       | 1        | 07/09/202000:48 | 375-85-9    | N2    |
| PFOA      | 40                   | 2.0        | 0.42       | 1        | 07/09/202000:48 | 335-67-1    | N2    |
| PFNA      | 6.6                  | 2.0        | 0.57       | 1        | 07/09/202000:48 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.0        | 0.66       | 1        | 07/09/202000:48 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.0        | 0.54       | 1        | 07/09/202000:48 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.0        | 0.39       | 1        | 07/09/202000:48 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 2.0        | 0.43       | 1        | 07/09/202000:48 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.0        | 0.39       | 1        | 07/09/202000:48 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.0        | 0.23       | 1        | 07/09/202000:48 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.0        | 0.90       | 1        | 07/09/202000:48 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.0        | 0.43       | 1        | 07/09/202000:48 | 2355-31-9   | N2    |
| PFBS      | 4.0                  | 1.8        | 0.20       | 1        | 07/09/202000:48 | 375-73-5    | N2    |
| PFPeS     | ND                   | 1.9        | 0.36       | 1        | 07/09/202000:48 | 2706-91-4   | N2    |
| PFHxS     | 8.7                  | 1.9        | 0.37       | 1        | 07/09/202000:48 | 355-46-4    | N2    |
| PFHpS     | 2.0                  | 1.9        | 0.45       | 1        | 07/09/202000:48 | 375-92-8    | N2    |
| PFOS      | 58                   | 1.9        | 0.38       | 1        | 07/09/202000:48 | 1763-23-1   | N2    |
| PFNS      | ND                   | 2.0        | 0.45       | 1        | 07/09/202000:48 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.0        | 0.32       | 1        | 07/09/202000:48 | 335-77-3    | N2    |
| 4:2FTS    | ND D                 | 19         | 5.7        | 10       | 07/10/202012:13 | 757124-72-4 | N2    |
| 6:2FTS    | ND D                 | 19         | 9.1        | 10       | 07/10/202012:13 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 2.0        | 0.75       | 1        | 07/09/202000:48 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-128          | Date Extracted         | 07/07/2020   |
| Lab Sample ID      | 10522940006     | Total Amount Extracted | 245 mL       |
| Filename           | Q200708C_010    | ICAL ID                | 200626A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200708C_002 |
| Collected          | 06/24/2020      | Ending CCal            | Q200708C_013 |
| Received           | 06/26/2020      | Method Blank Filename  | Q200708C_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area    |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|---------|
| 13C4_PFBA                      | 20             | 17             | 82        | 50-150             | Pass      | 1008151 |
| 13C5_PFPeA                     | 20             | 17             | 84        | 50-150             | Pass      | 729427  |
| 13C5_PFHxA                     | 20             | 17             | 84        | 50-150             | Pass      | 722304  |
| 13C4_PFHpA                     | 20             | 19             | 91        | 50-150             | Pass      | 684129  |
| 13C8_PFOA                      | 20             | 22             | 107       | 50-150             | Pass      | 846616  |
| 13C9_PFNA                      | 20             | 25             | 122       | 50-150             | Pass      | 864479  |
| 13C6_PFDA                      | 20             | 24             | 120       | 50-150             | Pass      | 697433  |
| 13C7_PFUdA                     | 20             | 25             | 124       | 50-150             | Pass      | 611567  |
| 13C2_PFDoA                     | 20             | 27             | 132       | 50-150             | Pass      | 659918  |
| 13C2_PFTeDA                    | 20             | 21             | 104       | 50-150             | Pass      | 394333  |
| d5-EtFOSAA                     | 20             | 18             | 90        | 50-150             | Pass      | 140562  |
| d3-MeFOSAA                     | 20             | 21             | 102       | 50-150             | Pass      | 125110  |
| 13C3_PFBS                      | 20             | 19             | 91        | 50-150             | Pass      | 643372  |
| 13C3_PFHxS                     | 20             | 20             | 97        | 50-150             | Pass      | 584597  |
| 13C8_PFOS                      | 20             | 19             | 92        | 50-150             | Pass      | 673640  |
| 13C8_PFOA                      | 20             | 12             | 60        | 50-150             | Pass      | 659152  |
| 13C2_4:2FTS                    | 20             | 23             | 114       | 50-150             | Pass      | 16116   |
| 13C2_6:2FTS                    | 20             | 23             | 111       | 50-150             | Pass      | 16017   |
| 13C2_8:2FTS                    | 20             | 31             | 149       | 50-150             | Pass      | 205951  |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 940915 | 544794 - 1634382 | 556927 - 1670781 | Pass      |
| 13C4_PFOS   | 769408 | 479924 - 1439772 | 455898 - 1367694 | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-129          | Date Extracted         | 07/07/2020   |
| Lab Sample ID      | 10522940007     | Total Amount Extracted | 110 mL       |
| Filename           | Q200708C_011    | ICAL ID                | 200626A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200708C_002 |
| Collected          | 06/24/2020      | Ending CCal            | Q200708C_013 |
| Received           | 06/26/2020      | Method Blank Filename  | Q200708C_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed        | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|-----------------|-------------|-------|
| PFBA      | 15                   | 4.5        | 0.66       | 1        | 07/09/202001:14 | 375-22-4    | N2    |
| PFPeA     | 26                   | 4.5        | 0.57       | 1        | 07/09/202001:14 | 2706-90-3   | N2    |
| PFHxA     | 33                   | 4.5        | 0.79       | 1        | 07/09/202001:14 | 307-24-4    | N2    |
| PFHpA     | 20                   | 4.5        | 0.96       | 1        | 07/09/202001:14 | 375-85-9    | N2    |
| PFOA      | 80                   | 4.5        | 0.93       | 1        | 07/09/202001:14 | 335-67-1    | N2    |
| PFNA      | 9.8                  | 4.5        | 1.3        | 1        | 07/09/202001:14 | 375-95-1    | N2    |
| PFDA      | ND                   | 4.5        | 1.5        | 1        | 07/09/202001:14 | 335-76-2    | N2    |
| PFUnA     | ND                   | 4.5        | 1.2        | 1        | 07/09/202001:14 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 4.5        | 0.87       | 1        | 07/09/202001:14 | 307-55-1    | N2    |
| PFTrDA    | ND                   | 4.5        | 0.96       | 1        | 07/09/202001:14 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 4.5        | 0.87       | 1        | 07/09/202001:14 | 376-06-7    | N2    |
| PFOSA     | ND                   | 4.5        | 0.52       | 1        | 07/09/202001:14 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 4.5        | 2.0        | 1        | 07/09/202001:14 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 4.5        | 0.96       | 1        | 07/09/202001:14 | 2355-31-9   | N2    |
| PFBS      | ND                   | 4.0        | 0.44       | 1        | 07/09/202001:14 | 375-73-5    | N2    |
| PFPeS     | ND                   | 4.3        | 0.79       | 1        | 07/09/202001:14 | 2706-91-4   | N2    |
| PFHxS     | 9.0                  | 4.2        | 0.81       | 1        | 07/09/202001:14 | 355-46-4    | N2    |
| PFHpS     | ND                   | 4.3        | 0.99       | 1        | 07/09/202001:14 | 375-92-8    | N2    |
| PFOS      | 96                   | 4.2        | 0.85       | 1        | 07/09/202001:14 | 1763-23-1   | N2    |
| PFNS      | ND                   | 4.4        | 0.99       | 1        | 07/09/202001:14 | 68259-12-1  | N2    |
| PFDS      | ND                   | 4.4        | 0.71       | 1        | 07/09/202001:14 | 335-77-3    | N2    |
| 4:2FTS    | ND D                 | 43         | 13         | 10       | 07/10/202012:40 | 757124-72-4 | N2    |
| 6:2FTS    | ND D                 | 43         | 20         | 10       | 07/10/202012:40 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 4.4        | 1.7        | 1        | 07/09/202001:14 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-129          | Date Extracted         | 07/07/2020   |
| Lab Sample ID      | 10522940007     | Total Amount Extracted | 110 mL       |
| Filename           | Q200708C_011    | ICAL ID                | 200626A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200708C_002 |
| Collected          | 06/24/2020      | Ending CCal            | Q200708C_013 |
| Received           | 06/26/2020      | Method Blank Filename  | Q200708C_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area    |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|---------|
| 13C4_PFBA                      | 45             | 38             | 83        | 50-150             | Pass      | 1047880 |
| 13C5_PFPeA                     | 45             | 38             | 84        | 50-150             | Pass      | 748176  |
| 13C5_PFHxA                     | 45             | 38             | 83        | 50-150             | Pass      | 725175  |
| 13C4_PFHpA                     | 45             | 41             | 91        | 50-150             | Pass      | 700410  |
| 13C8_PFOA                      | 45             | 45             | 99        | 50-150             | Pass      | 802000  |
| 13C9_PFNA                      | 45             | 53             | 116       | 50-150             | Pass      | 804715  |
| 13C6_PFDA                      | 45             | 57             | 124       | 50-150             | Pass      | 708438  |
| 13C7_PFUdA                     | 45             | 56             | 122       | 50-150             | Pass      | 587225  |
| 13C2_PFDoA                     | 45             | 59             | 130       | 50-150             | Pass      | 638084  |
| 13C2_PFTeDA                    | 45             | 51             | 112       | 50-150             | Pass      | 414098  |
| d5-EtFOSAA                     | 45             | 44             | 96        | 50-150             | Pass      | 146518  |
| d3-MeFOSAA                     | 45             | 50             | 110       | 50-150             | Pass      | 131818  |
| 13C3_PFBS                      | 45             | 40             | 88        | 50-150             | Pass      | 633661  |
| 13C3_PFHxS                     | 45             | 45             | 99        | 50-150             | Pass      | 578307  |
| 13C8_PFOS                      | 45             | 45             | 99        | 50-150             | Pass      | 707859  |
| 13C8_PFOA                      | 45             | 54             | 118       | 50-150             | Pass      | 1267387 |
| 13C2_4:2FTS                    | 45             | 55             | 120       | 50-150             | Pass      | 15934   |
| 13C2_6:2FTS                    | 45             | 51             | 113       | 50-150             | Pass      | 15295   |
| 13C2_8:2FTS                    | 45             | 67             | 147       | 50-150             | Pass      | 197663  |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 962226 | 544794 - 1634382 | 556927 - 1670781 | Pass      |
| 13C4_PFOS   | 751417 | 479924 - 1439772 | 455898 - 1367694 | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.





**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-131          | Date Extracted         | 07/07/2020   |
| Lab Sample ID      | 10522940008     | Total Amount Extracted | 111 mL       |
| Filename           | Q200708C_012    | ICAL ID                | 200626A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200708C_002 |
| Collected          | 06/24/2020      | Ending CCal            | Q200708C_013 |
| Received           | 06/26/2020      | Method Blank Filename  | Q200708C_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed        | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|-----------------|-------------|-------|
| PFBA      | 10.0                 | 4.5        | 0.66       | 1        | 07/09/202001:41 | 375-22-4    | N2    |
| PFPeA     | 11                   | 4.5        | 0.56       | 1        | 07/09/202001:41 | 2706-90-3   | N2    |
| PFHxA     | 14                   | 4.5        | 0.78       | 1        | 07/09/202001:41 | 307-24-4    | N2    |
| PFHpA     | 10                   | 4.5        | 0.95       | 1        | 07/09/202001:41 | 375-85-9    | N2    |
| PFOA      | 33                   | 4.5        | 0.91       | 1        | 07/09/202001:41 | 335-67-1    | N2    |
| PFNA      | 5.4                  | 4.5        | 1.2        | 1        | 07/09/202001:41 | 375-95-1    | N2    |
| PFDA      | ND                   | 4.5        | 1.4        | 1        | 07/09/202001:41 | 335-76-2    | N2    |
| PFUnA     | ND                   | 4.5        | 1.2        | 1        | 07/09/202001:41 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 4.5        | 0.86       | 1        | 07/09/202001:41 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 4.5        | 0.95       | 1        | 07/09/202001:41 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 4.5        | 0.86       | 1        | 07/09/202001:41 | 376-06-7    | N2    |
| PFOSA     | ND                   | 4.5        | 0.51       | 1        | 07/09/202001:41 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 4.5        | 2.0        | 1        | 07/09/202001:41 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 4.5        | 0.95       | 1        | 07/09/202001:41 | 2355-31-9   | N2    |
| PFBS      | 4.4                  | 4.0        | 0.43       | 1        | 07/09/202001:41 | 375-73-5    | N2    |
| PFPeS     | ND                   | 4.2        | 0.78       | 1        | 07/09/202001:41 | 2706-91-4   | N2    |
| PFHxS     | 6.3                  | 4.1        | 0.80       | 1        | 07/09/202001:41 | 355-46-4    | N2    |
| PFHpS     | ND                   | 4.3        | 0.98       | 1        | 07/09/202001:41 | 375-92-8    | N2    |
| PFOS      | 68                   | 4.1        | 0.84       | 1        | 07/09/202001:41 | 1763-23-1   | N2    |
| PFNS      | ND                   | 4.3        | 0.98       | 1        | 07/09/202001:41 | 68259-12-1  | N2    |
| PFDS      | 8.7                  | 4.3        | 0.70       | 1        | 07/09/202001:41 | 335-77-3    | N2    |
| 4:2FTS    | ND D                 | 42         | 12         | 10       | 07/10/202013:06 | 757124-72-4 | N2    |
| 6:2FTS    | 11                   | 4.3        | 2.0        | 1        | 07/09/202001:41 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 4.3        | 1.6        | 1        | 07/09/202001:41 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | MW-131          | Date Extracted         | 07/07/2020   |
| Lab Sample ID      | 10522940008     | Total Amount Extracted | 111 mL       |
| Filename           | Q200708C_012    | ICAL ID                | 200626A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200708C_002 |
| Collected          | 06/24/2020      | Ending CCal            | Q200708C_013 |
| Received           | 06/26/2020      | Method Blank Filename  | Q200708C_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area    |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|---------|
| 13C4_PFBA                      | 45             | 39             | 87        | 50-150             | Pass      | 1075176 |
| 13C5_PFPeA                     | 45             | 40             | 90        | 50-150             | Pass      | 788477  |
| 13C5_PFHxA                     | 45             | 42             | 94        | 50-150             | Pass      | 808910  |
| 13C4_PFHpA                     | 45             | 43             | 95        | 50-150             | Pass      | 720179  |
| 13C8_PFOA                      | 45             | 44             | 98        | 50-150             | Pass      | 775804  |
| 13C9_PFNA                      | 45             | 49             | 110       | 50-150             | Pass      | 764083  |
| 13C6_PFDA                      | 45             | 57             | 128       | 50-150             | Pass      | 731142  |
| 13C7_PFUdA                     | 45             | 56             | 124       | 50-150             | Pass      | 600693  |
| 13C2_PFDoA                     | 45             | 55             | 122       | 50-150             | Pass      | 600343  |
| 13C2_PFTeDA                    | 45             | 46             | 103       | 50-150             | Pass      | 380697  |
| d5-EtFOSAA                     | 45             | 37             | 83        | 50-150             | Pass      | 127897  |
| d3-MeFOSAA                     | 45             | 48             | 107       | 50-150             | Pass      | 129589  |
| 13C3_PFBS                      | 45             | 40             | 88        | 50-150             | Pass      | 622931  |
| 13C3_PFHxS                     | 45             | 43             | 96        | 50-150             | Pass      | 562176  |
| 13C8_PFOS                      | 45             | 43             | 96        | 50-150             | Pass      | 688491  |
| 13C8_PFOA                      | 45             | 52             | 116       | 50-150             | Pass      | 1251908 |
| 13C2_4:2FTS                    | 45             | 46             | 103       | 50-150             | Pass      | 14790   |
| 13C2_6:2FTS                    | 45             | 54             | 120       | 50-150             | Pass      | 168757  |
| 13C2_8:2FTS                    | 45             | 54             | 120       | 50-150             | Pass      | 161508  |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 944561 | 544794 - 1634382 | 556927 - 1670781 | Pass      |
| 13C4_PFOS   | 754190 | 479924 - 1439772 | 455898 - 1367694 | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | Dup 2           | Date Extracted         | 07/07/2020   |
| Lab Sample ID      | 10522940009     | Total Amount Extracted | 108 mL       |
| Filename           | Q200708C_014    | ICAL ID                | 200626A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200708C_013 |
| Collected          | 06/24/2020      | Ending CCal            | Q200708C_022 |
| Received           | 06/26/2020      | Method Blank Filename  | Q200708C_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed        | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|-----------------|-------------|-------|
| PFBA      | 5.2                  | 4.6        | 0.68       | 1        | 07/09/202002:34 | 375-22-4    | N2    |
| PFPeA     | ND                   | 4.6        | 0.58       | 1        | 07/09/202002:34 | 2706-90-3   | N2    |
| PFHxA     | ND                   | 4.6        | 0.81       | 1        | 07/09/202002:34 | 307-24-4    | N2    |
| PFHpA     | ND                   | 4.6        | 0.98       | 1        | 07/09/202002:34 | 375-85-9    | N2    |
| PFOA      | 6.7                  | 4.6        | 0.94       | 1        | 07/09/202002:34 | 335-67-1    | N2    |
| PFNA      | ND                   | 4.6        | 1.3        | 1        | 07/09/202002:34 | 375-95-1    | N2    |
| PFDA      | ND                   | 4.6        | 1.5        | 1        | 07/09/202002:34 | 335-76-2    | N2    |
| PFUnA     | ND                   | 4.6        | 1.2        | 1        | 07/09/202002:34 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 4.6        | 0.89       | 1        | 07/09/202002:34 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 4.6        | 0.98       | 1        | 07/09/202002:34 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 4.6        | 0.89       | 1        | 07/09/202002:34 | 376-06-7    | N2    |
| PFOSA     | ND                   | 4.6        | 0.53       | 1        | 07/09/202002:34 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 4.6        | 2.0        | 1        | 07/09/202002:34 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 4.6        | 0.98       | 1        | 07/09/202002:34 | 2355-31-9   | N2    |
| PFBS      | 5.4                  | 4.1        | 0.45       | 1        | 07/09/202002:34 | 375-73-5    | N2    |
| PFPeS     | ND                   | 4.4        | 0.81       | 1        | 07/09/202002:34 | 2706-91-4   | N2    |
| PFHxS     | ND                   | 4.2        | 0.83       | 1        | 07/09/202002:34 | 355-46-4    | N2    |
| PFHpS     | ND                   | 4.4        | 1.0        | 1        | 07/09/202002:34 | 375-92-8    | N2    |
| PFOS      | ND                   | 4.3        | 0.87       | 1        | 07/09/202002:34 | 1763-23-1   | N2    |
| PFNS      | ND                   | 4.5        | 1.0        | 1        | 07/09/202002:34 | 68259-12-1  | N2    |
| PFDS      | ND                   | 4.5        | 0.72       | 1        | 07/09/202002:34 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 4.3        | 1.3        | 1        | 07/09/202002:34 | 757124-72-4 | N2    |
| 6:2FTS    | 12                   | 4.4        | 2.1        | 1        | 07/09/202002:34 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 4.5        | 1.7        | 1        | 07/09/202002:34 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
 Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | Dup 2           | Date Extracted         | 07/07/2020   |
| Lab Sample ID      | 10522940009     | Total Amount Extracted | 108 mL       |
| Filename           | Q200708C_014    | ICAL ID                | 200626A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200708C_013 |
| Collected          | 06/24/2020      | Ending CCal            | Q200708C_022 |
| Received           | 06/26/2020      | Method Blank Filename  | Q200708C_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area    |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|---------|
| 13C4_PFBA                      | 46             | 42             | 90        | 50-150             | Pass      | 1087318 |
| 13C5_PFPeA                     | 46             | 45             | 96        | 50-150             | Pass      | 820806  |
| 13C5_PFHxA                     | 46             | 45             | 97        | 50-150             | Pass      | 810177  |
| 13C4_PFHpA                     | 46             | 46             | 98        | 50-150             | Pass      | 722031  |
| 13C8_PFOA                      | 46             | 47             | 102       | 50-150             | Pass      | 788847  |
| 13C9_PFNA                      | 46             | 52             | 112       | 50-150             | Pass      | 777860  |
| 13C6_PFDA                      | 46             | 50             | 107       | 50-150             | Pass      | 612910  |
| 13C7_PFUdA                     | 46             | 53             | 115       | 50-150             | Pass      | 555956  |
| 13C2_PFDoA                     | 46             | 58             | 126       | 50-150             | Pass      | 618181  |
| 13C2_PFTeDA                    | 46             | 48             | 103       | 50-150             | Pass      | 382501  |
| d5-EtFOSAA                     | 46             | 37             | 80        | 50-150             | Pass      | 122109  |
| d3-MeFOSAA                     | 46             | 45             | 98        | 50-150             | Pass      | 117760  |
| 13C3_PFBS                      | 46             | 42             | 91        | 50-150             | Pass      | 628747  |
| 13C3_PFHxS                     | 46             | 45             | 98        | 50-150             | Pass      | 575264  |
| 13C8_PFOS                      | 46             | 45             | 97        | 50-150             | Pass      | 700114  |
| 13C8_PFOA                      | 46             | 44             | 94        | 50-150             | Pass      | 1014914 |
| 13C2_4:2FTS                    | 46             | 54             | 117       | 50-150             | Pass      | 156255  |
| 13C2_6:2FTS                    | 46             | 50             | 107       | 50-150             | Pass      | 146851  |
| 13C2_8:2FTS                    | 46             | 48             | 103       | 50-150             | Pass      | 138979  |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 919937 | 544794 - 1634382 | 626939 - 1880816 | Pass      |
| 13C4_PFOS   | 753285 | 479924 - 1439772 | 500521 - 1501562 | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | Trip Blank      | Date Extracted         | 07/07/2020   |
| Lab Sample ID      | 10522940010     | Total Amount Extracted | 245 mL       |
| Filename           | Q200708C_015    | ICAL ID                | 200626A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200708C_013 |
| Collected          | 06/24/2020      | Ending CCal            | Q200708C_022 |
| Received           | 06/26/2020      | Method Blank Filename  | Q200708C_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed        | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|-----------------|-------------|-------|
| PFBA      | ND                   | 2.0        | 0.30       | 1        | 07/09/202003:01 | 375-22-4    | N2    |
| PFPeA     | ND                   | 2.0        | 0.26       | 1        | 07/09/202003:01 | 2706-90-3   | N2    |
| PFHxA     | ND                   | 2.0        | 0.36       | 1        | 07/09/202003:01 | 307-24-4    | N2    |
| PFHpA     | ND                   | 2.0        | 0.43       | 1        | 07/09/202003:01 | 375-85-9    | N2    |
| PFOA      | ND                   | 2.0        | 0.42       | 1        | 07/09/202003:01 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.0        | 0.57       | 1        | 07/09/202003:01 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.0        | 0.66       | 1        | 07/09/202003:01 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.0        | 0.54       | 1        | 07/09/202003:01 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.0        | 0.39       | 1        | 07/09/202003:01 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 2.0        | 0.43       | 1        | 07/09/202003:01 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.0        | 0.39       | 1        | 07/09/202003:01 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.0        | 0.23       | 1        | 07/09/202003:01 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.0        | 0.90       | 1        | 07/09/202003:01 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.0        | 0.43       | 1        | 07/09/202003:01 | 2355-31-9   | N2    |
| PFBS      | ND                   | 1.8        | 0.20       | 1        | 07/09/202003:01 | 375-73-5    | N2    |
| PFPeS     | ND                   | 1.9        | 0.36       | 1        | 07/09/202003:01 | 2706-91-4   | N2    |
| PFHxS     | ND                   | 1.9        | 0.37       | 1        | 07/09/202003:01 | 355-46-4    | N2    |
| PFHpS     | ND                   | 1.9        | 0.45       | 1        | 07/09/202003:01 | 375-92-8    | N2    |
| PFOS      | ND                   | 1.9        | 0.38       | 1        | 07/09/202003:01 | 1763-23-1   | N2    |
| PFNS      | ND                   | 2.0        | 0.45       | 1        | 07/09/202003:01 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.0        | 0.32       | 1        | 07/09/202003:01 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 1.9        | 0.57       | 1        | 07/09/202003:01 | 757124-72-4 | N2    |
| 6:2FTS    | ND                   | 1.9        | 0.91       | 1        | 07/09/202003:01 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 2.0        | 0.75       | 1        | 07/09/202003:01 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |                 |                        |              |
|--------------------|-----------------|------------------------|--------------|
| Client's Sample ID | Trip Blank      | Date Extracted         | 07/07/2020   |
| Lab Sample ID      | 10522940010     | Total Amount Extracted | 245 mL       |
| Filename           | Q200708C_015    | ICAL ID                | 200626A01    |
| Matrix             | Non_Potable_Wat | Starting CCal          | Q200708C_013 |
| Collected          | 06/24/2020      | Ending CCal            | Q200708C_022 |
| Received           | 06/26/2020      | Method Blank Filename  | Q200708C_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area    |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|---------|
| 13C4_PFBA                      | 20             | 18             | 88        | 50-150             | Pass      | 1128197 |
| 13C5_PFPeA                     | 20             | 19             | 93        | 50-150             | Pass      | 844975  |
| 13C5_PFHxA                     | 20             | 20             | 97        | 50-150             | Pass      | 864069  |
| 13C4_PFHpA                     | 20             | 20             | 96        | 50-150             | Pass      | 751855  |
| 13C8_PFOA                      | 20             | 20             | 99        | 50-150             | Pass      | 813535  |
| 13C9_PFNA                      | 20             | 23             | 112       | 50-150             | Pass      | 794360  |
| 13C6_PFDA                      | 20             | 23             | 111       | 50-150             | Pass      | 646902  |
| 13C7_PFUdA                     | 20             | 27             | 131       | 50-150             | Pass      | 644539  |
| 13C2_PFDoA                     | 20             | 26             | 129       | 50-150             | Pass      | 644684  |
| 13C2_PFTeDA                    | 20             | 22             | 108       | 50-150             | Pass      | 408957  |
| d5-EtFOSAA                     | 20             | 16             | 81        | 50-150             | Pass      | 126407  |
| d3-MeFOSAA                     | 20             | 19             | 91        | 50-150             | Pass      | 112532  |
| 13C3_PFBS                      | 20             | 19             | 93        | 50-150             | Pass      | 683766  |
| 13C3_PFHxS                     | 20             | 21             | 102       | 50-150             | Pass      | 609379  |
| 13C8_PFOS                      | 20             | 20             | 100       | 50-150             | Pass      | 732210  |
| 13C8_PFOA                      | 20             | 25             | 121       | 50-150             | Pass      | 1328917 |
| 13C2_4:2FTS                    | 20             | 22             | 107       | 50-150             | Pass      | 152395  |
| 13C2_6:2FTS                    | 20             | 20             | 100       | 50-150             | Pass      | 145207  |
| 13C2_8:2FTS                    | 20             | 22             | 110       | 50-150             | Pass      | 150942  |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 981871 | 544794 - 1634382 | 626939 - 1880816 | Pass      |
| 13C4_PFOS   | 769148 | 479924 - 1439772 | 500521 - 1501562 | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |              |                        |              |
|--------------------|--------------|------------------------|--------------|
| Client's Sample ID | Field Blank  | Date Extracted         | 07/07/2020   |
| Lab Sample ID      | 10522940011  | Total Amount Extracted | 237 mL       |
| Filename           | Q200708C_016 | ICAL ID                | 200626A01    |
| Matrix             | Water        | Starting CCal          | Q200708C_013 |
| Collected          | 06/24/2020   | Ending CCal            | Q200708C_022 |
| Received           | 06/26/2020   | Method Blank Filename  | Q200708C_004 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed        | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|-----------------|-------------|-------|
| PFBA      | ND                   | 2.1        | 0.31       | 1        | 07/09/202003:27 | 375-22-4    | N2    |
| PFPeA     | ND                   | 2.1        | 0.26       | 1        | 07/09/202003:27 | 2706-90-3   | N2    |
| PFHxA     | ND                   | 2.1        | 0.37       | 1        | 07/09/202003:27 | 307-24-4    | N2    |
| PFHpA     | ND                   | 2.1        | 0.45       | 1        | 07/09/202003:27 | 375-85-9    | N2    |
| PFOA      | ND                   | 2.1        | 0.43       | 1        | 07/09/202003:27 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.1        | 0.58       | 1        | 07/09/202003:27 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.1        | 0.68       | 1        | 07/09/202003:27 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.1        | 0.55       | 1        | 07/09/202003:27 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.1        | 0.40       | 1        | 07/09/202003:27 | 307-55-1    | N2    |
| PFTrDA    | ND                   | 2.1        | 0.45       | 1        | 07/09/202003:27 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.1        | 0.40       | 1        | 07/09/202003:27 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.1        | 0.24       | 1        | 07/09/202003:27 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.1        | 0.92       | 1        | 07/09/202003:27 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.1        | 0.44       | 1        | 07/09/202003:27 | 2355-31-9   | N2    |
| PFBS      | ND                   | 1.9        | 0.20       | 1        | 07/09/202003:27 | 375-73-5    | N2    |
| PFPeS     | ND                   | 2.0        | 0.37       | 1        | 07/09/202003:27 | 2706-91-4   | N2    |
| PFHxS     | ND                   | 1.9        | 0.38       | 1        | 07/09/202003:27 | 355-46-4    | N2    |
| PFHpS     | ND                   | 2.0        | 0.46       | 1        | 07/09/202003:27 | 375-92-8    | N2    |
| PFOS      | ND                   | 1.9        | 0.39       | 1        | 07/09/202003:27 | 1763-23-1   | N2    |
| PFNS      | ND                   | 2.0        | 0.46       | 1        | 07/09/202003:27 | 68259-12-1  | N2    |
| PFDS      | ND                   | 2.0        | 0.33       | 1        | 07/09/202003:27 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 2.0        | 0.58       | 1        | 07/09/202003:27 | 757124-72-4 | N2    |
| 6:2FTS    | ND                   | 2.0        | 0.94       | 1        | 07/09/202003:27 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 2.0        | 0.77       | 1        | 07/09/202003:27 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution**  
Sample Analysis Summary

|                    |              |                        |              |
|--------------------|--------------|------------------------|--------------|
| Client's Sample ID | Field Blank  | Date Extracted         | 07/07/2020   |
| Lab Sample ID      | 10522940011  | Total Amount Extracted | 237 mL       |
| Filename           | Q200708C_016 | ICAL ID                | 200626A01    |
| Matrix             | Water        | Starting CCal          | Q200708C_013 |
| Collected          | 06/24/2020   | Ending CCal            | Q200708C_022 |
| Received           | 06/26/2020   | Method Blank Filename  | Q200708C_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area    |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|---------|
| 13C4_PFBA                      | 21             | 18             | 83        | 50-150             | Pass      | 1119707 |
| 13C5_PFPeA                     | 21             | 19             | 88        | 50-150             | Pass      | 836875  |
| 13C5_PFHxA                     | 21             | 18             | 86        | 50-150             | Pass      | 804273  |
| 13C4_PFHpA                     | 21             | 20             | 94        | 50-150             | Pass      | 774229  |
| 13C8_PFOA                      | 21             | 21             | 98        | 50-150             | Pass      | 839137  |
| 13C9_PFNA                      | 21             | 25             | 117       | 50-150             | Pass      | 854334  |
| 13C6_PFDA                      | 21             | 23             | 107       | 50-150             | Pass      | 642248  |
| 13C7_PFUdA                     | 21             | 22             | 105       | 50-150             | Pass      | 532332  |
| 13C2_PFDoA                     | 21             | 28             | 131       | 50-150             | Pass      | 675731  |
| 13C2_PFTeDA                    | 21             | 23             | 107       | 50-150             | Pass      | 415789  |
| d5-EtFOSAA                     | 21             | 17             | 79        | 50-150             | Pass      | 127592  |
| d3-MeFOSAA                     | 21             | 19             | 92        | 50-150             | Pass      | 116435  |
| 13C3_PFBS                      | 21             | 19             | 89        | 50-150             | Pass      | 679595  |
| 13C3_PFHxS                     | 21             | 21             | 98        | 50-150             | Pass      | 606278  |
| 13C8_PFOS                      | 21             | 20             | 94        | 50-150             | Pass      | 708645  |
| 13C8_PFOA                      | 21             | 25             | 117       | 50-150             | Pass      | 1320163 |
| 13C2_4:2FTS                    | 21             | 21             | 99        | 50-150             | Pass      | 146906  |
| 13C2_6:2FTS                    | 21             | 21             | 100       | 50-150             | Pass      | 152626  |
| 13C2_8:2FTS                    | 21             | 22             | 105       | 50-150             | Pass      | 148792  |

**Injection Internal Standards**

| IS Compound | Area    | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|---------|------------------|------------------|-----------|
| 13C4_PFOA   | 1025013 | 544794 - 1634382 | 626939 - 1880816 | Pass      |
| 13C4_PFOS   | 792108  | 479924 - 1439772 | 500521 - 1501562 | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.





**PFAS by Isotope DilutionBlank Analysis Summary**

|                |              |                        |              |
|----------------|--------------|------------------------|--------------|
| Lab Sample ID  | BLANK-80627  | Total Amount Extracted | 254 mL       |
| Filename       | Q200708C_004 | ICAL ID                | 200626A01    |
| Matrix         | Water        | Starting CCal          | Q200708C_002 |
| Date Extracted | 07/07/2020   | Ending CCal            | Q200708C_013 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed        | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|-----------------|-------------|-------|
| PFBA      | ND                   | 2.0        | 0.29       | 1        | 07/08/202022:08 | 375-22-4    | N2    |
| PFPeA     | ND                   | 2.0        | 0.25       | 1        | 07/08/202022:08 | 2706-90-3   | N2    |
| PFHxA     | ND                   | 2.0        | 0.34       | 1        | 07/08/202022:08 | 307-24-4    | N2    |
| PFHpA     | ND                   | 2.0        | 0.42       | 1        | 07/08/202022:08 | 375-85-9    | N2    |
| PFOA      | ND                   | 2.0        | 0.40       | 1        | 07/08/202022:08 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.0        | 0.55       | 1        | 07/08/202022:08 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.0        | 0.63       | 1        | 07/08/202022:08 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.0        | 0.52       | 1        | 07/08/202022:08 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.0        | 0.38       | 1        | 07/08/202022:08 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 2.0        | 0.42       | 1        | 07/08/202022:08 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.0        | 0.38       | 1        | 07/08/202022:08 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.0        | 0.22       | 1        | 07/08/202022:08 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.0        | 0.86       | 1        | 07/08/202022:08 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.0        | 0.41       | 1        | 07/08/202022:08 | 2355-31-9   | N2    |
| PFBS      | ND                   | 1.7        | 0.19       | 1        | 07/08/202022:08 | 375-73-5    | N2    |
| PFPeS     | ND                   | 1.8        | 0.34       | 1        | 07/08/202022:08 | 2706-91-4   | N2    |
| PFHxS     | ND                   | 1.8        | 0.35       | 1        | 07/08/202022:08 | 355-46-4    | N2    |
| PFHpS     | ND                   | 1.9        | 0.43       | 1        | 07/08/202022:08 | 375-92-8    | N2    |
| PFOS      | ND                   | 1.8        | 0.37       | 1        | 07/08/202022:08 | 1763-23-1   | N2    |
| PFNS      | ND                   | 1.9        | 0.43       | 1        | 07/08/202022:08 | 68259-12-1  | N2    |
| PFDS      | ND                   | 1.9        | 0.30       | 1        | 07/08/202022:08 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 1.8        | 0.55       | 1        | 07/08/202022:08 | 757124-72-4 | N2    |
| 6:2FTS    | ND                   | 1.9        | 0.88       | 1        | 07/08/202022:08 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 1.9        | 0.72       | 1        | 07/08/202022:08 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope DilutionBlank Analysis Summary**

|                    |              |                        |              |
|--------------------|--------------|------------------------|--------------|
| Client's Sample ID | BLKLY        | Date Extracted         | 07/07/2020   |
| Lab Sample ID      | BLANK-80627  | Total Amount Extracted | 254 mL       |
| Filename           | Q200708C_004 | ICAL ID                | 200626A01    |
| Matrix             | Water        | Starting CCal          | Q200708C_002 |
| Collected          | 07/01/2020   | Ending CCal            | Q200708C_013 |
| Received           | 07/01/2020   | Method Blank Filename  |              |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area    |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|---------|
| 13C4_PFBA                      | 20             | 17             | 88        | 50-150             | Pass      | 1027122 |
| 13C5_PFPeA                     | 20             | 18             | 92        | 50-150             | Pass      | 766467  |
| 13C5_PFHxA                     | 20             | 18             | 91        | 50-150             | Pass      | 741968  |
| 13C4_PFHpA                     | 20             | 19             | 96        | 50-150             | Pass      | 686170  |
| 13C8_PFOA                      | 20             | 21             | 105       | 50-150             | Pass      | 789633  |
| 13C9_PFNA                      | 20             | 22             | 113       | 50-150             | Pass      | 735494  |
| 13C6_PFDA                      | 20             | 21             | 108       | 50-150             | Pass      | 581164  |
| 13C7_PFUdA                     | 20             | 23             | 118       | 50-150             | Pass      | 533241  |
| 13C2_PFDoA                     | 20             | 25             | 125       | 50-150             | Pass      | 574884  |
| 13C2_PFTeDA                    | 20             | 20             | 103       | 50-150             | Pass      | 357214  |
| d5-EtFOSAA                     | 20             | 14             | 73        | 50-150             | Pass      | 105921  |
| d3-MeFOSAA                     | 20             | 18             | 91        | 50-150             | Pass      | 103359  |
| 13C3_PFBS                      | 20             | 18             | 89        | 50-150             | Pass      | 598379  |
| 13C3_PFHxS                     | 20             | 19             | 98        | 50-150             | Pass      | 538758  |
| 13C8_PFOS                      | 20             | 18             | 93        | 50-150             | Pass      | 625262  |
| 13C8_PFOA                      | 20             | 22             | 112       | 50-150             | Pass      | 1132375 |
| 13C2_4:2FTS                    | 20             | 20             | 100       | 50-150             | Pass      | 130368  |
| 13C2_6:2FTS                    | 20             | 20             | 103       | 50-150             | Pass      | 136726  |
| 13C2_8:2FTS                    | 20             | 23             | 116       | 50-150             | Pass      | 147137  |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 894369 | 544794 - 1634382 | 556927 - 1670781 | Pass      |
| 13C4_PFOS   | 707534 | 479924 - 1439772 | 455898 - 1367694 | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope DilutionBlank Analysis Summary**

|                |              |                        |              |
|----------------|--------------|------------------------|--------------|
| Lab Sample ID  | BLANK-80702  | Total Amount Extracted | 250 mL       |
| Filename       | Q200713C_004 | ICAL ID                | 200713B01    |
| Matrix         | Water        | Starting CCal          | Q200713C_002 |
| Date Extracted | 07/09/2020   | Ending CCal            | Q200713C_014 |

| Compound  | Concentration (ng/L) | PQL (ng/L) | MDL (ng/L) | Dilution | Analyzed        | CAS No.     | Qual. |
|-----------|----------------------|------------|------------|----------|-----------------|-------------|-------|
| PFBA      | ND                   | 2.0        | 0.29       | 1        | 07/13/202020:06 | 375-22-4    | N2    |
| PFPeA     | ND                   | 2.0        | 0.25       | 1        | 07/13/202020:06 | 2706-90-3   | N2    |
| PFHxA     | ND                   | 2.0        | 0.35       | 1        | 07/13/202020:06 | 307-24-4    | N2    |
| PFHpA     | ND                   | 2.0        | 0.42       | 1        | 07/13/202020:06 | 375-85-9    | N2    |
| PFOA      | ND                   | 2.0        | 0.41       | 1        | 07/13/202020:06 | 335-67-1    | N2    |
| PFNA      | ND                   | 2.0        | 0.56       | 1        | 07/13/202020:06 | 375-95-1    | N2    |
| PFDA      | ND                   | 2.0        | 0.64       | 1        | 07/13/202020:06 | 335-76-2    | N2    |
| PFUnA     | ND                   | 2.0        | 0.53       | 1        | 07/13/202020:06 | 2058-94-8   | N2    |
| PFDaA     | ND                   | 2.0        | 0.38       | 1        | 07/13/202020:06 | 307-55-1    | N2    |
| PFTTrDA   | ND                   | 2.0        | 0.42       | 1        | 07/13/202020:06 | 72629-94-8  | N2    |
| PFTeDA    | ND                   | 2.0        | 0.38       | 1        | 07/13/202020:06 | 376-06-7    | N2    |
| PFOSA     | ND                   | 2.0        | 0.23       | 1        | 07/13/202020:06 | 754-91-6    | N2    |
| N-EtFOSAA | ND                   | 2.0        | 0.88       | 1        | 07/13/202020:06 | 2991-50-6   | N2    |
| N-MeFOSAA | ND                   | 2.0        | 0.42       | 1        | 07/13/202020:06 | 2355-31-9   | N2    |
| PFBS      | ND                   | 1.8        | 0.19       | 1        | 07/13/202020:06 | 375-73-5    | N2    |
| PFPeS     | ND                   | 1.9        | 0.35       | 1        | 07/13/202020:06 | 2706-91-4   | N2    |
| PFHxS     | ND                   | 1.8        | 0.36       | 1        | 07/13/202020:06 | 355-46-4    | N2    |
| PFHpS     | ND                   | 1.9        | 0.44       | 1        | 07/13/202020:06 | 375-92-8    | N2    |
| PFOS      | ND                   | 1.8        | 0.37       | 1        | 07/13/202020:06 | 1763-23-1   | N2    |
| PFNS      | ND                   | 1.9        | 0.44       | 1        | 07/13/202020:06 | 68259-12-1  | N2    |
| PFDS      | ND                   | 1.9        | 0.31       | 1        | 07/13/202020:06 | 335-77-3    | N2    |
| 4:2FTS    | ND                   | 1.9        | 0.56       | 1        | 07/13/202020:06 | 757124-72-4 | N2    |
| 6:2FTS    | ND                   | 1.9        | 0.89       | 1        | 07/13/202020:06 | 27619-97-2  | N2    |
| 8:2FTS    | ND                   | 1.9        | 0.73       | 1        | 07/13/202020:06 | 39108-34-4  | N2    |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope DilutionBlank Analysis Summary**

|                    |              |                        |              |
|--------------------|--------------|------------------------|--------------|
| Client's Sample ID | BLKMY        | Date Extracted         | 07/09/2020   |
| Lab Sample ID      | BLANK-80702  | Total Amount Extracted | 250 mL       |
| Filename           | Q200713C_004 | ICAL ID                | 200713B01    |
| Matrix             | Water        | Starting CCal          | Q200713C_002 |
| Collected          | 07/08/2020   | Ending CCal            | Q200713C_014 |
| Received           | 07/08/2020   | Method Blank Filename  | Q200713C_004 |

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area    |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|---------|
| 13C4_PFBA                      | 20             | 19             | 95        | 50-150             | Pass      | 1143748 |
| 13C5_PFPeA                     | 20             | 20             | 98        | 50-150             | Pass      | 855278  |
| 13C5_PFHxA                     | 20             | 20             | 98        | 50-150             | Pass      | 872113  |
| 13C4_PFHpA                     | 20             | 20             | 98        | 50-150             | Pass      | 750053  |
| 13C8_PFOA                      | 20             | 20             | 100       | 50-150             | Pass      | 863317  |
| 13C9_PFNA                      | 20             | 20             | 100       | 50-150             | Pass      | 852547  |
| 13C6_PFDA                      | 20             | 19             | 95        | 50-150             | Pass      | 685392  |
| 13C7_PFUdA                     | 20             | 20             | 98        | 50-150             | Pass      | 661948  |
| 13C2_PFDoA                     | 20             | 19             | 97        | 50-150             | Pass      | 646015  |
| 13C2_PFTeDA                    | 20             | 19             | 94        | 50-150             | Pass      | 495105  |
| d5-EtFOSAA                     | 20             | 18             | 90        | 50-150             | Pass      | 157975  |
| d3-MeFOSAA                     | 20             | 19             | 95        | 50-150             | Pass      | 143254  |
| 13C3_PFBS                      | 20             | 19             | 97        | 50-150             | Pass      | 661263  |
| 13C3_PFHxS                     | 20             | 20             | 98        | 50-150             | Pass      | 598478  |
| 13C8_PFOS                      | 20             | 19             | 95        | 50-150             | Pass      | 735749  |
| 13C8_PFOA                      | 20             | 18             | 91        | 50-150             | Pass      | 1290718 |
| 13C2_4:2FTS                    | 20             | 19             | 93        | 50-150             | Pass      | 154573  |
| 13C2_6:2FTS                    | 20             | 20             | 102       | 50-150             | Pass      | 167940  |
| 13C2_8:2FTS                    | 20             | 19             | 92        | 50-150             | Pass      | 175581  |

**Injection Internal Standards**

| IS Compound | Area    | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|---------|------------------|------------------|-----------|
| 13C4_PFOA   | 1109052 | 574385 - 1723154 | 606424 - 1819272 | Pass      |
| 13C4_PFOS   | 885786  | 464830 - 1394490 | 485138 - 1455414 | Pass      |

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



**PFAS by Isotope Dilution Laboratory Control Sample (LCS)**

|                        |              |             |                  |
|------------------------|--------------|-------------|------------------|
| LCS Lab Sample ID      | LCS-80628    | Matrix      | Water            |
| LCS Filename           | Q200708C_005 | Dilution    | 1                |
| Total Amount Extracted | 246mL        | Extracted   | 07/07/2020       |
| ICAL ID                | 200626A01    | Analyzed    | 07/08/2020 22:35 |
| Start CCal Filename    | Q200708C_002 | Injected By | PY1              |
| End CCal Filename      | Q200708C_013 |             |                  |
| Method Blank Filename  | Q200708C_004 |             |                  |

| Compound  | Spiked (ng/L) | Recovered (ng/L) | Recovery % | Limits       |
|-----------|---------------|------------------|------------|--------------|
| PFBA      | 20            | 22               | 109        | 70.0 - 130.0 |
| PFPeA     | 20            | 22               | 111        | 70.0 - 130.0 |
| PFHxA     | 20            | 21               | 105        | 70.0 - 130.0 |
| PFHpA     | 20            | 23               | 112        | 70.0 - 130.0 |
| PFOA      | 20            | 20               | 100        | 70.0 - 130.0 |
| PFNA      | 20            | 23               | 112        | 70.0 - 130.0 |
| PFDA      | 20            | 23               | 114        | 70.0 - 130.0 |
| PFUnA     | 20            | 23               | 113        | 70.0 - 130.0 |
| PFDoA     | 20            | 21               | 102        | 70.0 - 130.0 |
| PFTTrDA   | 20            | 18               | 90         | 70.0 - 130.0 |
| PFTeDA    | 20            | 20               | 100        | 70.0 - 130.0 |
| PFOSA     | 20            | 21               | 105        | 70.0 - 130.0 |
| N-EtFOSAA | 20            | 24               | 120        | 70.0 - 130.0 |
| N-MeFOSAA | 20            | 20               | 101        | 70.0 - 130.0 |
| PFBS      | 18            | 19               | 106        | 70.0 - 130.0 |
| PFPeS     | 19            | 22               | 116        | 70.0 - 130.0 |
| PFHxS     | 18            | 20               | 107        | 70.0 - 130.0 |
| PFHpS     | 19            | 22               | 115        | 70.0 - 130.0 |
| PFOS      | 19            | 21               | 112        | 70.0 - 130.0 |
| PFNS      | 19            | 21               | 107        | 70.0 - 130.0 |
| PFDS      | 20            | 21               | 106        | 70.0 - 130.0 |
| 4:2FTS    | 19            | 21               | 112        | 70.0 - 130.0 |
| 6:2FTS    | 19            | 21               | 112        | 70.0 - 130.0 |
| 8:2FTS    | 19            | 21               | 110        | 70.0 - 130.0 |



**PFAS by Isotope Dilution Laboratory Control Sample (LCS)**

LCS Lab Sample ID      LCS-80628  
 LCS Filename            Q200708C\_005

Matrix      Water

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area    |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|---------|
| 13C4_PFBA                      | 20             | 19             | 95        | 50-150             | Pass      | 1070000 |
| 13C5_PFPeA                     | 20             | 20             | 97        | 50-150             | Pass      | 774598  |
| 13C5_PFHxA                     | 20             | 21             | 103       | 50-150             | Pass      | 800995  |
| 13C4_PFHpA                     | 20             | 20             | 99        | 50-150             | Pass      | 680317  |
| 13C8_PFOA                      | 20             | 22             | 108       | 50-150             | Pass      | 774576  |
| 13C9_PFNA                      | 20             | 23             | 114       | 50-150             | Pass      | 736644  |
| 13C6_PFDA                      | 20             | 22             | 109       | 50-150             | Pass      | 581776  |
| 13C7_PFUdA                     | 20             | 23             | 113       | 50-150             | Pass      | 509041  |
| 13C2_PFDoA                     | 20             | 25             | 122       | 50-150             | Pass      | 561974  |
| 13C2_PFTeDA                    | 20             | 22             | 109       | 50-150             | Pass      | 375770  |
| d5-EtFOSAA                     | 20             | 16             | 81        | 50-150             | Pass      | 116673  |
| d3-MeFOSAA                     | 20             | 21             | 103       | 50-150             | Pass      | 116543  |
| 13C3_PFBs                      | 20             | 20             | 98        | 50-150             | Pass      | 625851  |
| 13C3_PFHxS                     | 20             | 20             | 99        | 50-150             | Pass      | 544216  |
| 13C8_PFOS                      | 20             | 20             | 97        | 50-150             | Pass      | 650472  |
| 13C8_PFOA                      | 20             | 25             | 121       | 50-150             | Pass      | 1217473 |
| 13C2_4:2Fts                    | 20             | 22             | 110       | 50-150             | Pass      | 136376  |
| 13C2_6:2Fts                    | 20             | 22             | 111       | 50-150             | Pass      | 140780  |
| 13C2_8:2Fts                    | 20             | 23             | 113       | 50-150             | Pass      | 142176  |

**Injection Internal Standards**

| IS Compound | Area   | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|--------|------------------|------------------|-----------|
| 13C4_PFOA   | 856624 | 544794 - 1634382 | 556927 - 1670781 | Pass      |
| 13C4_PFOS   | 705594 | 479924 - 1439772 | 455898 - 1367694 | Pass      |



**PFAS by Isotope Dilution Laboratory Control Sample (LCS)**

|                        |              |             |                  |
|------------------------|--------------|-------------|------------------|
| LCS Lab Sample ID      | LCS-80703    | Matrix      | Water            |
| LCS Filename           | Q200713C_005 | Dilution    | 1                |
| Total Amount Extracted | 247mL        | Extracted   | 07/09/2020       |
| ICAL ID                | 200713B01    | Analyzed    | 07/13/2020 20:32 |
| Start CCal Filename    | Q200713C_002 | Injected By | NH               |
| End CCal Filename      | Q200713C_014 |             |                  |
| Method Blank Filename  | Q200713C_004 |             |                  |

| Compound  | Spiked<br>(ng/L) | Recovered<br>(ng/L) | Recovery<br>% | Limits       |
|-----------|------------------|---------------------|---------------|--------------|
| PFBA      | 20               | 23                  | 114           | 70.0 - 130.0 |
| PFPeA     | 20               | 23                  | 114           | 70.0 - 130.0 |
| PFHxA     | 20               | 24                  | 120           | 70.0 - 130.0 |
| PFHpA     | 20               | 24                  | 119           | 70.0 - 130.0 |
| PFOA      | 20               | 23                  | 116           | 70.0 - 130.0 |
| PFNA      | 20               | 22                  | 109           | 70.0 - 130.0 |
| PFDA      | 20               | 24                  | 117           | 70.0 - 130.0 |
| PFUnA     | 20               | 23                  | 116           | 70.0 - 130.0 |
| PFDoA     | 20               | 22                  | 109           | 70.0 - 130.0 |
| PFTTrDA   | 20               | 22                  | 108           | 70.0 - 130.0 |
| PFTeDA    | 20               | 23                  | 114           | 70.0 - 130.0 |
| PFOSA     | 20               | 23                  | 115           | 70.0 - 130.0 |
| N-EtFOSAA | 20               | 23                  | 114           | 70.0 - 130.0 |
| N-MeFOSAA | 20               | 23                  | 114           | 70.0 - 130.0 |
| PFBS      | 18               | 20                  | 114           | 70.0 - 130.0 |
| PFPeS     | 19               | 22                  | 116           | 70.0 - 130.0 |
| PFHxS     | 18               | 21                  | 113           | 70.0 - 130.0 |
| PFHpS     | 19               | 24                  | 123           | 70.0 - 130.0 |
| PFOS      | 19               | 21                  | 115           | 70.0 - 130.0 |
| PFNS      | 19               | 22                  | 112           | 70.0 - 130.0 |
| PFDS      | 19               | 22                  | 113           | 70.0 - 130.0 |
| 4:2FTS    | 19               | 21                  | 109           | 70.0 - 130.0 |
| 6:2FTS    | 19               | 22                  | 113           | 70.0 - 130.0 |
| 8:2FTS    | 19               | 23                  | 119           | 70.0 - 130.0 |



**PFAS by Isotope Dilution Laboratory Control Sample (LCS)**

LCS Lab Sample ID      LCS-80703  
 LCS Filename            Q200713C\_005

Matrix      Water

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area    |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|---------|
| 13C4_PFBA                      | 20             | 19             | 96        | 50-150             | Pass      | 1091674 |
| 13C5_PFPeA                     | 20             | 20             | 97        | 50-150             | Pass      | 798910  |
| 13C5_PFHxA                     | 20             | 20             | 97        | 50-150             | Pass      | 816169  |
| 13C4_PFHpA                     | 20             | 19             | 93        | 50-150             | Pass      | 670871  |
| 13C8_PFOA                      | 20             | 20             | 98        | 50-150             | Pass      | 803758  |
| 13C9_PFNA                      | 20             | 21             | 104       | 50-150             | Pass      | 807885  |
| 13C6_PFDA                      | 20             | 19             | 92        | 50-150             | Pass      | 607270  |
| 13C7_PFUdA                     | 20             | 19             | 94        | 50-150             | Pass      | 583630  |
| 13C2_PFDoA                     | 20             | 19             | 95        | 50-150             | Pass      | 574307  |
| 13C2_PFTeDA                    | 20             | 19             | 92        | 50-150             | Pass      | 446581  |
| d5-EtFOSAA                     | 20             | 19             | 93        | 50-150             | Pass      | 147908  |
| d3-MeFOSAA                     | 20             | 20             | 97        | 50-150             | Pass      | 132751  |
| 13C3_PFBs                      | 20             | 20             | 98        | 50-150             | Pass      | 630506  |
| 13C3_PFHxS                     | 20             | 20             | 101       | 50-150             | Pass      | 563617  |
| 13C8_PFOS                      | 20             | 19             | 93        | 50-150             | Pass      | 655717  |
| 13C8_PFOsA                     | 20             | 19             | 93        | 50-150             | Pass      | 1198676 |
| 13C2_4:2FTS                    | 20             | 20             | 99        | 50-150             | Pass      | 154973  |
| 13C2_6:2FTS                    | 20             | 20             | 101       | 50-150             | Pass      | 157562  |
| 13C2_8:2FTS                    | 20             | 19             | 93        | 50-150             | Pass      | 160874  |

**Injection Internal Standards**

| IS Compound | Area    | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|---------|------------------|------------------|-----------|
| 13C4_PFOA   | 1047647 | 574385 - 1723154 | 606424 - 1819272 | Pass      |
| 13C4_PFOS   | 808875  | 464830 - 1394490 | 485138 - 1455414 | Pass      |





**PFAS by Isotope Dilution Laboratory Control Sample Duplicate (LCSD)**

|                        |              |              |                  |
|------------------------|--------------|--------------|------------------|
| LCSD Lab Sample ID     | LCSD-80704   | LCS Filename | Q200713C_005     |
| LCSD Filename          | Q200713C_006 | Matrix       | Water            |
| Total Amount Extracted | 248mL        | Dilution     | 1                |
| ICAL ID                | 200713B01    | Extracted    | 07/09/2020       |
| Start CCal Filename    | Q200713C_002 | Analyzed     | 07/13/2020 20:59 |
| End CCal Filename      | Q200713C_014 | Injected By  | NH               |
| Method Blank Filename  | Q200713C_004 |              |                  |

| Compound  | Spiked<br>(ng/L) | Recovered<br>(ng/L) | Recovery<br>% | Recovery<br>Limits | RPD<br>% |
|-----------|------------------|---------------------|---------------|--------------------|----------|
| PFBA      | 20               | 24                  | 117           | 70.0 - 130.0       | 2        |
| PFPeA     | 20               | 23                  | 114           | 70.0 - 130.0       | 0        |
| PFHxA     | 20               | 23                  | 115           | 70.0 - 130.0       | 4        |
| PFHpA     | 20               | 23                  | 116           | 70.0 - 130.0       | 3        |
| PFOA      | 20               | 23                  | 115           | 70.0 - 130.0       | 2        |
| PFNA      | 20               | 22                  | 108           | 70.0 - 130.0       | 1        |
| PFDA      | 20               | 24                  | 119           | 70.0 - 130.0       | 2        |
| PFUnA     | 20               | 22                  | 110           | 70.0 - 130.0       | 6        |
| PFDoA     | 20               | 23                  | 112           | 70.0 - 130.0       | 3        |
| PFTTrDA   | 20               | 21                  | 103           | 70.0 - 130.0       | 4        |
| PFTeDA    | 20               | 23                  | 115           | 70.0 - 130.0       | 0        |
| PFOSA     | 20               | 24                  | 119           | 70.0 - 130.0       | 3        |
| N-EtFOSAA | 20               | 22                  | 111           | 70.0 - 130.0       | 3        |
| N-MeFOSAA | 20               | 23                  | 114           | 70.0 - 130.0       | 1        |
| PFBS      | 18               | 20                  | 114           | 70.0 - 130.0       | 0        |
| PFPeS     | 19               | 22                  | 115           | 70.0 - 130.0       | 1        |
| PFHxS     | 18               | 22                  | 118           | 70.0 - 130.0       | 4        |
| PFHpS     | 19               | 22                  | 116           | 70.0 - 130.0       | 6        |
| PFOS      | 19               | 21                  | 110           | 70.0 - 130.0       | 4        |
| PFNS      | 19               | 21                  | 109           | 70.0 - 130.0       | 3        |
| PFDS      | 19               | 21                  | 108           | 70.0 - 130.0       | 5        |
| 4:2FTS    | 19               | 22                  | 115           | 70.0 - 130.0       | 6        |
| 6:2FTS    | 19               | 21                  | 111           | 70.0 - 130.0       | 2        |
| 8:2FTS    | 19               | 23                  | 117           | 70.0 - 130.0       | 3        |



**PFAS by Isotope Dilution Laboratory Control Sample Duplicate (LCSD)**

LCSD Lab Sample ID      LCSD-80704      LCS Filename      Q200713C\_005  
 LCSD Filename      Q200713C\_006      Matrix      Water

| Internal Standards<br>Compound | Known<br>Conc. | Conc.<br>Found | %Recovery | Recovery<br>Limits | Pass/Fail | Area    |
|--------------------------------|----------------|----------------|-----------|--------------------|-----------|---------|
| 13C4_PFBA                      | 20             | 19             | 95        | 50-150             | Pass      | 1128790 |
| 13C5_PFPeA                     | 20             | 19             | 96        | 50-150             | Pass      | 832999  |
| 13C5_PFHxA                     | 20             | 19             | 95        | 50-150             | Pass      | 837892  |
| 13C4_PFHpA                     | 20             | 20             | 97        | 50-150             | Pass      | 740098  |
| 13C8_PFOA                      | 20             | 20             | 97        | 50-150             | Pass      | 830687  |
| 13C9_PFNA                      | 20             | 21             | 103       | 50-150             | Pass      | 856650  |
| 13C6_PFDA                      | 20             | 20             | 99        | 50-150             | Pass      | 697282  |
| 13C7_PFUdA                     | 20             | 19             | 95        | 50-150             | Pass      | 630523  |
| 13C2_PFDoA                     | 20             | 19             | 95        | 50-150             | Pass      | 615101  |
| 13C2_PFTeDA                    | 20             | 18             | 90        | 50-150             | Pass      | 466084  |
| d5-EtFOSAA                     | 20             | 18             | 90        | 50-150             | Pass      | 154791  |
| d3-MeFOSAA                     | 20             | 18             | 91        | 50-150             | Pass      | 133790  |
| 13C3_PFBs                      | 20             | 19             | 96        | 50-150             | Pass      | 649161  |
| 13C3_PFHxS                     | 20             | 19             | 96        | 50-150             | Pass      | 576014  |
| 13C8_PFOS                      | 20             | 19             | 96        | 50-150             | Pass      | 725717  |
| 13C8_PFOA                      | 20             | 18             | 91        | 50-150             | Pass      | 1271526 |
| 13C2_4:2FTS                    | 20             | 19             | 95        | 50-150             | Pass      | 155902  |
| 13C2_6:2FTS                    | 20             | 20             | 101       | 50-150             | Pass      | 164690  |
| 13C2_8:2FTS                    | 20             | 20             | 97        | 50-150             | Pass      | 180597  |

**Injection Internal Standards**

| IS Compound | Area    | Ical Limits      | CCV Limits       | Pass/Fail |
|-------------|---------|------------------|------------------|-----------|
| 13C4_PFOA   | 1097457 | 574385 - 1723154 | 606424 - 1819272 | Pass      |
| 13C4_PFOS   | 868360  | 464830 - 1394490 | 485138 - 1455414 | Pass      |