

Revitalizing Auto Communities Environmental  
Response Trust (RACER)

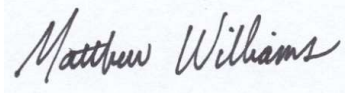
# **MONTCALM SEEP INTERIM MEASURE WORK PLAN**

Pontiac North Campus Site

November, 2017

A large, solid orange geometric shape, resembling a right-angled triangle or a trapezoid, is positioned in the bottom right corner of the page. It is oriented with its hypotenuse facing upwards and to the right. A thin white diagonal line runs from the bottom-left corner of the shape towards the top-right corner. A thin white horizontal line crosses the shape near its base.

## MONTCALM SEEP INTERIM MEASURE WORK PLAN



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## 1 INTRODUCTION AND OBJECTIVES

This *Montcalm Seep Interim Measure Work Plan* (Work Plan) describes the methodology for implementing a hydraulic control groundwater extraction system with upgradient re-injection to mitigate the groundwater seep along the E. Montcalm Street right-of-way (ROW) near the southern property boundary of the Revitalizing Auto Communities Environmental Response Trust (RACER) Trust Pontiac North Campus Site (Site) located in Pontiac, Michigan (**Figure 1**). This Work Plan was prepared in response to ongoing discussions with RACER and the United States Environmental Protection Agency (USEPA) regarding mitigation of the potential for seeps along the E. Montcalm St. ROW (Seep Area) and elimination of potential safety hazards associated with the seeps.

The objective of the system is to mitigate the potential for groundwater to seep along Montcalm St. and into the City of Pontiac's storm sewer system, and eliminate water flowing over the sidewalk and right-of-way into the street. The system would relocate water from a toe drain collection line adjacent to Montcalm St. to an upgradient area of the Site where it would be re-injected into the subsurface. The proposed scope of work includes toe drain rehabilitation and the installation of an extraction sump, submersible pumps, and conveyance piping to route recovered water to upgradient injection wells.

A more detailed description of the work elements listed above is included in the subsequent sections.

## 2 SITE DESCRIPTION AND HISORY

The area of the Site located north (up-gradient) of the Montcalm Seep Area has undergone significant filling beginning shortly after the start of construction of the former pre-bankruptcy General Motors Corporation (old GMC) manufacturing facilities in the late 1920s through 1930s. Based on review of historical aerial photographs and topographic maps the majority of filling within the area began prior to 1937 and continued into the 1940s. Additional filling may have occurred in the area during the old GMC facility demolition and Site redevelopment activities. Prior to facility construction, an ephemeral creek dissected the Site from northeast to southwest, crossing under Montcalm St., eventually draining to Harris Lake.

In 2004, old GMC entered into a Master Services Agreement with the United States Postal Service (USPS) to lease a 73-acre portion of the old GM property for redevelopment and construction of a USPS Distribution Center. This area was designated as the Area of Industrial Redevelopment (AIR) during redevelopment activities and then subsequently identified as the USPS property, after redevelopment concluded. During redevelopment of the property, approximately five feet of clean surficial fill was placed across the property, including locations where historical fill was already in place. The western side of the USPS property is primarily where the scope of work described in this work plan will be conducted.

At an unknown date, an approximately 750 foot-long groundwater collection drain (toe drain) was installed along Montcalm St. by old GMC. The toe drain consists of a six-inch diameter polyvinyl chloride (PVC) perforated pipe embedded in a trench filled with gravel to collect the water. The collected water drained to a collection vault where it was previously pumped via a six-inch diameter force main pipe to a stormwater detention facility located on the south side of Montcalm St. In 2011, old GMC discontinued use of the stormwater detention facility along Montcalm St. and diverted all stormwater from the old GMC property to a new facility.

Following the bulkheading of select storm sewers at the Site and toe drain pump station demolition activities by RACER (performed in March 2012), standing water was consistently observed in the Montcalm St. ROW and along the sidewalk located south of the former pump station. Initial observations indicated that this standing water was the result of surface water runoff from the areas subjected to sewer bulkheading, combined with groundwater seeping from the bank that previously was collected in the toe drain and/or infiltrated the proximate storm sewers.

Several activities completed between 2012 and 2014 attempted to mitigate the standing water issue and to collect information about the geology/hydrogeology in the area. In 2012, a coarse aggregate-filled drainage swale was installed at the toe of the slope, just north of and parallel to the sidewalk. Additionally, approximately 200 linear feet of the low-lying sidewalk just south of the former pump station was raised approximately 6 inches above its previous grade to create a flatter grade across the seep area and allow for pedestrian use of the sidewalk. The area south of this raised sidewalk was sloped to drain away from the sidewalk to the south.

During 2013 and 2014, 10 monitoring wells (TW-MD-01 through 07 and TW-ROW-01 through 03) were installed in the Seep Area. Several groundwater and surface water sampling events were completed on these wells, as well as hydraulic conductivity testing and groundwater elevation surveys. Testing results from these locations along with details related to the past assessments of the groundwater seep are documented in the Montcalm Avenue Seep Assessment Report (Arcadis, 2015) and in **Table 1** which displays sampling results through 2017.

## 2.1 System Overview

The focus of this Work Plan is the area of the Site directly north of Montcalm St., where the potentiometric surface of the groundwater is occasionally slightly higher than the local topographic elevations leading to groundwater seeps in the area. As the toe drain, accompanied by periodic groundwater extraction pumping, previously dewatered and controlled seeps in this area, re-use of the old toe drain combined with upgradient re-injection within the hydraulic capture footprint of the toe drain is proposed as a seep mitigation strategy. Injection wells are useful tools when large quantities of water must be relocated.

A new below-grade sump equipped with dewatering pumps is proposed to be installed and connected to the current toe drain (once rehabilitated), and conveyance lines will be installed to direct the seep water to two upgradient injection wells, located northwest of the USPS building as shown on **Figure 2**.

Based on ground elevations and contour maps from gauging efforts conducted in September 2016, groundwater is expected to flow to the south southwest in the direction of the Seep Area. Field studies have indicated a total discharge flux of 1 to 2 gallons per minute (gpm) to the toe drain. However, for conservative discharge estimates, groundwater modeling using a model based on the United States Geological Survey (USGS) MODFLOW simulator was conducted. This model accounts for the existing soil and geographical conditions, and groundwater recharge and discharge flux. Modeling results indicate that a 3 to 4 gpm flux to the toe drain may be occurring under static conditions, and up to a 6 gpm discharge may be utilized for a conservative design assumption to maintain a depressed water table along the toe drain when utilizing the proposed injection locations. Modeling also demonstrated that the injection locations are generally within the upgradient hydraulic capture footprint of the toe drain. The proposed seep control mechanism therefore is to collect the seep discharge via the toe drain into the

below-grade sump to adequately depress the water table. The dewatering pumps in this sump would then pump the water to the injection wells, where it would be injected into the native formation from approximately 20 to 40 feet below ground surface (bgs) where groundwater flows back towards the Seep Area. Groundwater travel time from the injection wells back to the toe drain is estimated to be over 6 years.

## 2.2 Focused Conceptual Site Model

This area-specific conceptual Site model (CSM) focuses on information related to the proposed area of work, including the Seep Area adjacent to Montcalm St. and the area west of the USPS facility. Information was gathered from the Resource Conservation and Recovery Act (RCRA) Facilities Investigation (RFI) (Arcadis, 2012) report and from recent data presented in the Montcalm Avenue Seep Assessment Report (Arcadis, 2015) and investigation and sampling conducted throughout the site to date.

### 2.2.1 General Geology / Hydrogeology

A geologic setting for the overall Site was constructed using monitoring well and borehole data from previous investigations. The following area-specific geologic and lithologic descriptions are specific to the south west corner of the Site to the west of the USPS property near the proposed injection location. The area west of the USPS facility is fairly heterogeneous and underlain by recently placed surficial fill material for the development of the property, historical fill material, glaciolacustrine deposits, glacial outwash, and basal till. Ground surface near the proposed injection site is approximately 965 feet above mean sea level (amsl) and is 941 amsl at the toe drain. Clean surficial fill material to a depth of approximately 5 feet is present across the Site. Beneath that, historical fill material is composed of reworked native soils, foundry sands, and imported soils resulting from preparation of the Site construction and reworking of the land over time. The historical fill also contains a variety of debris and can be intermixed with gravel, clay stringers, clayey fill material, and light brown sand. The historical fill material is thickest (up to 30 feet in depth) in the southwestern area of the Site.

Glaciolacustrine deposits underlie the fill material beginning anywhere from 5 to 30 feet bgs, extending to depths of 80 feet bgs in the work area. Glaciolacustrine deposits are present at elevations ranging from 960 to 875 amsl. These deposits are highly variable in grain size and density; however, most of these deposits consist of clays, silts, and fine to coarse sands. In general, these deposits are described as brown to gray and are usually water-bearing. Underlying these glaciolacustrine deposits are upper outwash deposits that are composed of fine to coarse sands and fine to coarse gravels, with some silt. This outwash deposit is continuous across the Site and ranges in thickness from 5 to 30 feet. Outwash deposits were characterized in previous RFI reports (Arcadis, 2012) and are not impacted.

Underlying all the other layers is a basal till deposit that is composed of gray clay, fine to medium sand, and some gravel. The basal till is expected to act as a vertical barrier to any potential migration of groundwater or Site-related constituents.

### 2.2.2 Area-Specific Geology

In general, the surface topography of the proposed area of work slopes to the south/southwest from the historical on-Site fill area described above down towards Montcalm St. There is an approximate 30-foot drop in elevation from SB-MD-01 located on the top of the slope north of the Montcalm St. ROW over approximately 200 feet to TW-ROW-02 located south beyond the bottom of the slope within the Montcalm St. ROW (**Figure 2**).

Based on soil borings completed near the proposed injection area as indicated on Figure 2, MWW5-01 and TW-09-01 indicate the thickness of the surface fill and topsoil ranges in thickness from approximately 5 feet to 13.5 feet. Relatively permeable fine to coarse sandy fill within the glaciolacustrine deposits is present at TW-09-01 with thickness of 5 feet with a similar thickness at MWW5-01; however, it differs in character with more layered deposits of fine sand to gravelly sand seams within sandy clay at MWW5-01.

Based on the soil borings completed near Montcalm St., the subsurface geology immediately north of the seep area along the toe of the slope consists of an approximate 5-foot layer of sand/clay/silt fill and topsoil overlying a 5- to 10-foot thick layer of relatively permeable fine to coarse black sandy fill. A lower confining unit is present at approximately 10 to 15 feet bgs is comprised of wetland deposits consisting of clay and peat overlying marl.

### 2.2.3 Area-Specific Hydrogeology

Groundwater is present in the fill material and unconfined glaciolacustrine deposits at the Site. Within the proposed area of work, this groundwater is typically found ranging from 1 to 25 bgs at an elevation of around 953 feet above mean sea level amsl at the injection location and 942 amsl near the toe drain. The groundwater flow direction generally follows the topography of the Site, with the horizontal component of the groundwater flow to the south and southwest. The horizontal hydraulic gradient varies from 0.002 to 0.01, and the hydraulic conductivity of the sand portions of the glaciolacustrine unit is consistently  $10^{-3}$  cm/sec. It is important to note that hydraulic conductivity is highly localized, as the glaciolacustrine deposits vary in the proportions of sand, silt, and clay present.

### 2.2.4 Area-Specific Contaminant Concentrations and Distribution

As proposed, seep groundwater will be re-injected upgradient of the toe drain within 100 feet of the estimated extents of subsurface impacted groundwater. As such, an evaluation of the contaminant distribution along the potential flow path was completed to confirm that in situ concentrations and extents are not exacerbated by the re-injection process.

Groundwater at the proposed injection location is best characterized by analytical data collected from monitoring wells MWW5-01 and TW-09-01 (**Figure 2**). As shown on **Table 2**, these two wells have historically had intermittent low-level contaminant detections of semi-volatile organic compounds (SVOCs) and inorganics. Specifically, there have been Michigan Department of Environmental Quality (MDEQ) Part 201 drinking water and groundwater surface water interface (GSI) criteria exceedances of 1,4-dioxane, phenanthrene, arsenic, manganese, mercury, and thallium. However, the associated concentrations are lower than what is encountered within downgradient groundwater located within the LNAPL areas such as TW-01-03, TW-10-01, and TW-10-02. LNAPL areas have recently been depicted in the Supplemental Site Characterization Summary (Arcadis, 2016).

Groundwater between the injection location and Seep Area is best characterized by analytical data collected from monitoring wells MWW8-48, MWW10-SEN02, MWW10-SEN03, MWW10-SEN04, RWW8-133, TW-01-02, TW-01-03, TW-10-01, and TW-10-02 (**Table 2; Figure 2**). These wells have historically had low-level detections of volatile organic compounds (VOCs), SVOCs, polychlorinated byphenols (PCBs) and inorganics above MDEQ Part 201 drinking water and GSI criteria as well. Contaminant concentrations are higher than those detected at the injection location and the Seep Area. In addition, PCB-impacted LNAPL and soil are present in this area, with PCB concentrations in LNAPL as high as 3,600 mg/kg.

Seep Area groundwater can be characterized by data collected from monitoring wells TW-MD-01, TW-MD-02, TW-MD-03, TW-MD-04, TW-MD-05, TW-MD-06, TW-MD-07, TW-ROW-01, TW-ROW-02, and TW-ROW-03 (**Table 2; Figure 2**). Groundwater samples within the Montcalm St. ROW (ROW-series wells) have contained concentrations of arsenic above GSI criteria; however, metals were not detected above GSI criteria in groundwater samples collected immediately up-gradient of the groundwater/seep interface (MD series wells) along the toe of the slope. Low concentrations of PCBs have also been observed at TW-MD-01 and TW-MD-06.

The quality of groundwater in wells TW-MD-01 through 07, which is representative of water quality expressing as seeps, was assessed to evaluate potential effects of reinjection. Specifically, the water quality was evaluated to determine if there is potential for complications arising from injection of seep water (and changes to water quality upon exposure to atmosphere) upon reinjection.

The groundwater in these wells is alkaline and mildly reducing. It has low dissolved oxygen concentrations (<1 mg/L) and dissolved iron concentrations are elevated (up to 17 mg/L in TW-MD-06). Based on the circumneutral pH, and the observation that dissolved (filtered) and total (unfiltered) iron concentrations are similar, the iron in solution is most likely present as ferrous iron (Fe[II]), since ferric iron (Fe[III]) is insoluble in these conditions. Exposure to atmosphere resulting in oxygenation of the water would result in rapid oxidation and precipitation of the ferrous iron. The circumneutral pH and high concentrations of calcium (up to 140 mg/L) and alkalinity (over 400 mg/L as CaCO<sub>3</sub>) suggest that the water could be at or above saturation with respect to carbonate mineral phases. If the water were at carbonate mineral saturation, exposure to atmosphere could result in CO<sub>2</sub> degassing, causing a pH increase and carbonate mineral oversaturation, which could cause scaling. Accordingly, there is a potential for mineral precipitation and scaling upon seepage water collection, pumping/transfer, and reinjection, depending on the level of atmospheric contact.

Based on the water quality, there is not believed to be any risk associated with potential constituent release on reinjection of the water. Specifically, potential constituent release mechanisms include dissolution of aquifer minerals and desorption of adsorbed constituents. Since the groundwater being injected is from the same saturated unit in which it would be reinjected, it is unlikely that there are minerals present in the aquifer that are not already in equilibrium with the discharging groundwater.

An exception to this would be if exposure to atmosphere were to change the water chemistry such that aquifer minerals were no longer in equilibrium with the water:

- Oxygenation would reduce the solubility of iron and manganese phases; therefore, dissolution of oxide phases is not a concern.

- As noted above, atmospheric exposure could also potentially result in carbonate mineral supersaturation. However, if this were to result in precipitation, the final solution would be at saturation with respect to mineral phases, and therefore dissolution of such phases in the saturated unit would not be a concern.

To determine whether carbonate phases are at saturation in the groundwater, and to understand the magnitude of potential pH changes on aeration and precipitation, geochemical solubility calculations were performed using the thermodynamic modeling code PHREEQC (Parkhurst and Appelo) using the WATEQ database. The model suggests that the pH could increase due to aeration and precipitate formation from 7.2 to 8.8. However, this increase is likely an overestimate, since the water would more likely not achieve complete equilibration with atmosphere. Re-injection of water with a slightly elevated pH is not anticipated to be a concern because it would decrease potential for cationic metal desorption and would have insignificant desorption effects on oxoanions such as arsenic. The actual pH change would likely be even lower than predicted since the saturated unit would tend to buffer the pH back to original values via proton exchange on mineral surfaces.

Based on the modeling and evaluation discussed, there are no anticipated negative effects to groundwater quality associated with re-injection of groundwater.

## 2.3 Permitting/Notifications

Based on the activities associated with this Work Plan, a Groundwater Discharge Permit through the Groundwater Permits Unit of the MDEQ's Water Resources Division is not anticipated to be required. Injection of recovered groundwater will be in accordance with Part 31 R323 Rule 2210(u) which states that an exemption can be provided for wastewater associated with an environmental response activity if the discharge is re-injected to the plume of groundwater contamination including area 100 feet hydraulically upgradient of the edge of the plume. The referenced code indicates that the remediation plan and exemption can require approval from the department division that has compliance oversight. This Work Plan will therefore be submitted to the MDEQ in addition to USEPA for approval prior to beginning work.

A soil erosion sedimentation control (SESC) permit is also not applicable for this work due to less than one acre of disturbance and because all excavation areas will be located more than 500 feet from a lake or stream. SESC best practices such as silt fencing and catch basin filters will still be utilized during construction and inspected similar to what would be required for a permitted scenario.

An electrical permit through the City of Pontiac will be obtained prior to electrical infrastructure installation and a right of way permit through the City of Pontiac will be obtained if the work area is expected to extend south of the property line/fence along Montcalm St.

Prior to commencing with any field activities associated with this scope of work, the following notification activities will be performed:

- All applicable permits will be obtained as previously discussed.
- The United States Postal Service (USPS) will be notified of planned activities and anticipated schedule prior to the commencement of work in accordance with past practice.

- MISSDIG will be contacted to locate public utilities at the Site.
- USEPA and MDEQ will be notified of the construction schedule once finalized.

### 3 SCOPE OF WORK

The scope of work associated with this work plan includes the design and installation of infrastructure to control the groundwater seepage adjacent to Montcalm St. The components of the scope of work are listed below and described in detail in the following sections:

- Injection testing
- Toe drain restoration/alterations
- Sump installation
- Conveyance pipe installation
- Injection well installation
- Completion reporting
- Operation and maintenance
- Monitoring

#### 3.1 Injection Testing

Injection testing will be completed to determine hydraulic design parameters for the full-scale injection approach. One injection has been installed and developed initially. This will be followed by a series of slug tests and injection step testing. Two monitoring wells have also been installed downgradient of the injection well to measure aquifer response during the injection step tests. The monitoring wells are installed within the anticipated radius of injection to enable assessment of the injection well effects on groundwater levels throughout the testing area. The wells will also be sampled prior to injection testing to validate baseline water quality conditions.

Slug testing at the injection well and monitoring wells will be conducted to determine hydraulic conductivity in the target injection area and step testing will be used to determine hydraulic influence and injection capacity at various injection rates. Step testing is proposed to start at 3 gpm followed by steps at 6, 10, 15 and 30 gpm estimated as steps equal to approximately 10%, 20%, 33%, 50% and 100% of the design flow. Step testing will be initiated via gravity injection, and higher flowrates may require pressure (10-20 psi) to achieve or may not be feasible at all. Along with determining realistic injection rates, the operational goal of the injection test will be to inject 5,000 to 10,000 gallons of water uninterrupted. This volume represents one theoretical day of volume in a full-scale design for a system removing 6 gpm on average over the course of one day. During a full-scale operation scenario, dewatering pumps could cycle on periodically and pump at an estimated 10 - 25 gpm which is assumed to be the operational design flow rate. Potable water obtained from an offsite source will be hauled in to fill a 20,000-gallon frac tank with water for the injection step testing. There are also nearby onsite fire hydrants which may be used as a backup water source, but could require USPS approval prior to use.

Data and results of injection testing will be reviewed with the EPA following completion of the testing along with any significant design revisions required as a result of the testing.

### 3.2 Toe Drain Restoration/Alterations

Arcadis field staff previously investigated the existing six-inch diameter perforated PVC toe-drain along the Montcalm St. ROW in May 2017. Attempts were made to clear the toe drain from the cleanout points on the ends of the toe drain as shown in **Figure 2**. Obstructions were observed 150' east of the western cleanout and 195' west of the eastern cleanout, which are locations that correlate with likely root blockages. To restore the toe drain, the clogged portion of the toe drain will be jetted out with high pressure cleaning tooling. Depending on Site conditions, the jetting equipment will either be inserted at the cleanouts or from a central excavated location. New sections of drain pipe will be installed or repaired as required, depending on evaluation of drain conditions.

The toe drain currently connects to an abandoned in place pump station. A new section of drain pipe and collection trench will be installed around the abandoned pump station to connect the two rehabilitated ends of the former collection drain. The toe drain pipe will be constructed of new six-inch PVC drain pipe with two rows of standard bottom positioned openings similar to the existing toe drain. The drain pipe will be installed at a 0.5% slope towards the collection sump located centrally along the length of the drain.

### 3.3 Sump Installation

A new 36-inch diameter prepackaged sump with duplex high head submersible sump pumps will be installed approximately 100 feet west of the abandoned pump station. The fiberglass sump basin is 84 inches tall and contains two submersible pumps with operating on/off float switches. The pumps are single phase 230-volt, 14.5-amp, two horsepower units with built in thermal overloads. Each pump will be installed with a check valve on the discharge side of the pump with a ball valve located beneath the frost line to minimize the potential for materials freezing and breaking. In normal operation, one pump will be used while the other is in stand-by mode. The toe drain collection pipes will empty into the sump via gravity flow. The sump will have a 70-gallon capacity up to the anticipated pump actuation point. Water will be pumped from within the sump through a single discharge pipe connected to both pump ends. Two pumps are proposed for installation so that a backup is available and to facilitate continuation of seep dewatering in the event a pump requires maintenance or replacement.

### 3.4 Conveyance Pipe Installation

Conveyance piping for transporting the water to the injection wells will be comprised of two-inch diameter SDR11 HDPE pipe, fused at all pipe splice locations. Trenching, possibly in combination with horizontal directional drilling will be utilized to install conveyance piping, as shown on **Figure 2**. Cleanout points are proposed every 300 to 350 feet along the piping to allow for periodic high-pressure cleaning of the pipe interior. Valves for accessing cleanouts and for isolating flow to injection infrastructure will be fused into conveyance piping below grade so that the valves are below the frost line. Valve stems will be accessible at grade for all valves and will be operable with the use of a valve key.

### 3.5 Injection Well Installation

Two injection wells, INJ-01-17 and INJ-02-17, are proposed to be installed approximately 1,600 feet upgradient from the seep area **Figure 2**. One injection well (INJ-01-17) was installed to complete an

injection test and validate design assumptions regarding the injectability to the subsurface, as previously described. The second injection well will be completed as part of the scope of work to complete installation of the remaining part of the system. Details of construction for injection wells are located on **Figure 3**. In general, the wells are proposed to be four inches in diameter with PVC risers and 20-foot stainless steel v-wire wrapped screens. Each well will be fitted with a pitless adapter connected to the conveyance piping from the extraction sump and a drop pipe extending to three to five feet off the bottom of the well. The intent of the drop pipe is to minimize oxygenating the water as it is injected into the subsurface. A stilling pipe for use of a transducer in each well will also be installed. Injection wells will be finished with flush mounted well vaults and developed using jetting and surge block methods to maximize sustained injection rates.

### 3.6 Completion Reporting

A brief technical memo-style report will be prepared to document the activities associated with this work plan. The report will include the following information:

- Brief description of the field activities performed during construction
- Photographic log of activities performed
- As-built drawings
- Additional relevant information, including, but not limited to, field forms and imported material certifications.

### 3.7 Operation and Maintenance

The system will be observed every day or every other day for one week to ensure correct and consistent operation. After that, the frequency may be reduced to once every two weeks or once a month as deemed appropriate. Some of the monitoring requirements are described below.

#### 3.7.1 Flow

Flow rates recorded from a flow meter in or adjacent to the toe drain sump will be documented during inspection events. Flow readings will also assist in dictating cleaning requirements for the conveyance lines and the injection wells. The flow meter will log instantaneous and cumulative flow.

#### 3.7.2 Pump Operation Frequency

An hour tracker for each pump will be used to document how often pumps are running. Field observations during inspection events will be used to corroborate hour tracking quantities and frequencies.

#### 3.7.3 Pressure Monitoring

A pressure gauge will be installed on the pump discharge pipe in the fiberglass sump. This gauge will be used to determine changes in backpressure on the system and to monitor fouling in injection wells, infiltration gallery, and conveyance piping. The pressure gauge will be accompanied by a pressure

transmitter interlocked with pump operation so that the pumps are shut down when backpressure climbs too high.

### 3.7.4 Groundwater Level Monitoring

Groundwater levels will be monitored during each inspection event to allow for evaluation of groundwater flow as described in the monitoring section below. Injection wells will be installed with transducers to monitor groundwater elevation at the injection wells. If communication with the pump controls can be installed cost effectively, transducers will be interlocked with the system control panel to shut down pump operation in the event water levels get too close to ground surface at the injection wells.

### 3.7.5 Sampling

Grab samples will be collected from the sump and injection well to monitor dissolved oxygen (DO) levels, pH, temperature, conductivity, oxidation reduction potential, total dissolved solids, iron, and hardness. Initially, samples will be collected once per month for the first three months and then semi-annually thereafter. Water quality parameters will be documented in accordance with the frequencies described on **Table 2**.

Given iron concentrations in Seep Area monitoring wells, fouling and scaling derived from dissolved metals deposition and biofouling need to be considered. Geochemical sampling has been conducted from the TW-MD well series along the toe drain, which indicates pH conditions (6.5-8) and high dissolved iron concentrations which can also promote the growth of iron-related-bacteria leading to biofouling and plugging of the formation surrounding the injection well screen. Sequestrant and water treatment additive vendors have been contacted to discuss potential additives that can be used to mitigate fouling potential. Due to the timeframe, cost, and desire to minimize equipment footprint, Arcadis is first recommending operation assuming frequent well redevelopment will be required as a potentially more cost-effective measure. If deemed necessary after a period of operation, sequestrant use can easily be added into system operation but is expected to require MDEQ approval prior to use based on Part 31 R323 Rules.

## 3.8 Monitoring

The monitoring well network for evaluation of the seep mitigation system includes wells located near the seep, at the vicinity of the injection wells, and at some intermediate well locations in accordance with **Table 2**. Focused fluid level gauging will be used to develop targeted groundwater contours to evaluate changes due to the system operation. In addition to the proposed wells, annual groundwater sampling events will be utilized to create groundwater contour maps which will be compared against historical data to determine if the seep control operation is functioning properly without causing undesirable contamination mobility. **Table 2** presents the proposed well network, monitoring parameters, and purpose for each well in the network. Monitoring wells proposed for injection performance during the proposed pilot study have been installed and include MW-03-17 and MW-04-17.

## 3.9 Schedule

Subcontractor procurement for the injection testing can occur after submittal of this Work Plan and implemented as soon as practical after USEPA and MDEQ approval and weather permitting. The

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schedule for implementation will be initiated in the fourth quarter of 2017 starting with injection testing. Field implementation (system installation) will be initiated in the spring of 2018. A draft schedule for implementation is included below:

Weeks from USEPA and MDEQ approval	Item
6 weeks (In process)	Injection and monitoring well installation
	Injection pilot testing
	Injection test review and design updates
14 weeks	Request for proposal to contractors
	Bid walk
	Contractor selection
	Utility locate
	Injection well installation
18 weeks	Toe drain cleaning/rehabilitation, sump and pipe installation
	Electrical Installation
22 weeks	System startup

## 4 REFERENCES

Arcadis, Inc. 2016. Supplemental Site Characterization Summary, RACER Trust, Pontiac Michigan, July 21, 2016.

Arcadis, Inc. 2015. Montcalm Avenue Seep Assessment, RACER Trust, Pontiac Michigan, February 5, 2015.

Arcadis, Inc. 2012. RCRA Facilities Investigation, RACER Trust, Pontiac Michigan, July 9, 2012.

# TABLES



**Table 1**  
**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW1-02 01/17/02 MWW1-02-GW-011702	MWW1-02 01/17/02 MWW1-02-GW-N	MWW1-02 11/08/02 MWW102GW	MWW1-02 11/08/02 MWW102GW110802	MWW1-02 05/19/03 MWW102W(1-11)	MWW1-02 12/10/03 MWW102GW(1-11)	MWW1-02 05/03/04 MWW102GW (050304)	MWW1-02 05/17/04 MWW102GW051704	MWW1-02 10/26/04 MWW1-02-GW-102604
<b>PCBs</b>													
Aroclor-1016	0.5	0.5	0.2	ug/L	NA	0.054 UJ	NA	0.20 U	0.20 UJ	0.20 U [0.2 U]	0.20 U [0.2 U]	NA	0.20 U [0.2 U]
Aroclor-1221	0.5	0.5	0.2	ug/L	NA	0.11 UJ	NA	0.20 U	0.20 UJ	0.20 U [0.2 U]	0.20 U [0.2 U]	NA	0.20 U [0.2 U]
Aroclor-1232	0.5	0.5	0.2	ug/L	NA	0.056 UJ	NA	0.40 U	0.40 UJ	0.40 U [0.4 U]	0.40 U [0.4 U]	NA	0.40 U [0.4 U]
Aroclor-1242	0.5	0.5	0.2	ug/L	NA	0.075 UJ	NA	0.20 U	0.20 UJ	0.20 U [0.2 U]	0.20 U [0.2 U]	NA	0.20 U [0.2 U]
Aroclor-1248	0.5	0.5	0.2	ug/L	NA	0.061 UJ	NA	0.20 U	0.20 UJ	0.20 U [0.2 U]	0.20 U [0.2 U]	NA	0.20 U [0.2 U]
Aroclor-1254	0.5	0.5	0.2	ug/L	NA	0.082 UJ	NA	0.20 U	0.20 UJ	0.20 U [0.2 U]	0.20 U [0.2 U]	NA	0.20 U [0.2 U]
Aroclor-1260	0.5	0.5	0.2	ug/L	NA	0.044 UJ	NA	0.20 U	0.20 UJ	0.20 U [0.2 U]	0.20 U [0.2 U]	NA	0.20 U [0.2 U]
<b>PCBs-Filtered</b>													
Aroclor-1016 (PCB-1016) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Volatile Organics</b>													
1,2,3-Trimethylbenzene	60	130	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	24	76	19	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	2	6.8	2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	13	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	3,600	17,000	11,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	5,300	17,000	1,700	ug/L	NA	0.51 UJ	NA	2.1 J	10 UJ	10 U [10 U]	10 U [10 U]	NA	10 UJ [10 UJ]
Benzene	5	5	200	ug/L	NA	0.16 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]
Bromobenzene	47	150	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	80	80	--	ug/L	NA	0.17 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]
Bromoform	80	80	--	ug/L	NA	0.18 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]
Bromomethane	120	380	5	ug/L	NA	0.20 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]
2-Butanone	2,400	11,000	2,200	ug/L	NA	0.41 UJ	NA	0.70 J	10 UJ	10 UJ [10 UJ]	10 U [10 U]	NA	10 UJ [10 UJ]
n-Butylbenzene	270	870	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	440	1,800	--	ug/L	NA	0.20 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]
Carbon Tetrachloride	5	5	38	ug/L	NA	0.12 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 UJ [1 UJ]
CFC-11	1,800	5,700	--	ug/L	NA	0.28 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]
CFC-12	30	94	--	ug/L	NA	0.26 U	NA	2.0 U	2.0 UJ	2.0 U [2 U]	2.0 U [2 U]	NA	2.0 U [2 U]
Chlorobenzene	100	100	25	ug/L	NA	0.14 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]
Chlorobromomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorodibromomethane	80	80	--	ug/L	NA	0.26 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]
Chloroethane	240	760	1,100	ug/L	NA	0.26 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]
Chloroform	80	80	350	ug/L	NA	0.14 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]
Chloromethane	220	1,100	--	ug/L	NA	0.13 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	0.27 J [0.26 J]
Cyclohexane	--	--	--	ug/L	NA	0.13 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]
Cymene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.2	0.2	--	ug/L	NA	0.62 U	NA	2.0 U	2.0 UJ	2.0 U [2 U]	2.0 U [2 U]	NA	2.0 UJ [2 UJ]
1,2-Dibromoethane	0.05	0.05	5.7	ug/L	NA	0.22 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]
Dibromomethane	18	57	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	600	13	ug/L	NA	0.11 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]
1,3-Dichlorobenzene	12	38	28	ug/L	NA	0.15 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]
1,4-Dichlorobenzene	75	75	17	ug/L	NA	0.17 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]

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1,1-Dichloroethane	1,200	3,800	740	ug/L	NA	0.16 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	0.22 J [0.25 J]
1,2-Dichloroethane	5	5	360	ug/L	NA	0.21 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]
1,1-Dichloroethene	7	7	130	ug/L	NA	0.24 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]
cis-1,2-Dichloroethene	70	70	620	ug/L	NA	0.22 U	NA	0.50 U	0.50 UJ	0.50 U [0.5 U]	0.50 U [0.5 U]	NA	1.0 U [1 U]
trans-1,2-Dichloroethene	100	100	1,500	ug/L	NA	0.15 U	NA	0.50 U	0.50 UJ	0.50 U [0.5 U]	0.50 U [0.5 U]	NA	1.0 U [1 U]
Dichloromethane	5	5	1,500	ug/L	NA	0.34 U	NA	1.0 U	1.0 UJ	1.0 UJ [1 UJ]	1.0 U [1 U]	NA	1.0 U [1 U]
1,2-Dichloropropane	5	5	230	ug/L	NA	0.17 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]
cis-1,3-Dichloropropene	--	--	--	ug/L	NA	0.12 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 UJ [1 UJ]
trans-1,3-Dichloropropene	--	--	--	ug/L	NA	0.27 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	R [R]	NA	1.0 UJ [1 UJ]
Diethyl Ether	5	5	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	7.2	37	2,800	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	66	74	18	ug/L	NA	0.12 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]
Isopropylbenzene	590	1,900	28	ug/L	NA	0.12 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]
Methyl acetate	--	--	--	ug/L	NA	0.41 U	NA	10 U	10 UJ	10 U [10 U]	10 U [10 U]	NA	10 U [10 U]
Methyl N-Butyl Ketone	50	94	--	ug/L	NA	0.46 U	NA	10 U	10 UJ	10 U [10 U]	10 U [10 U]	NA	10 UJ [10 UJ]
Methylcyclohexane	--	--	--	ug/L	NA	0.15 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]
4-Methyl-2-pentanone	300	940	--	ug/L	NA	0.23 U	NA	10 U	10 UJ	10 U [10 U]	10 U [10 U]	NA	10 U [10 U]
Methyl tert-butyl ether	40	40	7,100	ug/L	NA	0.13 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
Naphthalene	590	1,900	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	100	80	ug/L	NA	0.15 U	NA	1.0 U	R	R [R]	1.0 U [1 U]	NA	1.0 U [1 U]
1,1,1,2-Tetrachloroethane	28	140	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1,2,2-Tetrachloroethane	3.6	18	78	ug/L	NA	0.25 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	R [1 U]	NA	1.0 U [1 U]
Tetrachloroethene	5	5	60	ug/L	NA	0.23 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	R [1 U]	NA	1.0 U [1 U]
Toluene	470	790	270	ug/L	NA	0.18 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]
1,2,3-Trichlorobenzene	16	51	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	70	99	ug/L	NA	0.17 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]
1,1,1-Trichloroethane	200	200	89	ug/L	NA	0.15 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]
1,1,2-Trichloroethane	5	5	330	ug/L	NA	0.30 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]
Trichloroethene	5	5	200	ug/L	NA	0.14 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 UJ [1 UJ]	NA	1.0 U [1 U]
1,2,3-Trichloropropane	1	1	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	160,000	170,000	32	ug/L	NA	0.32 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]
1,2,4-Trimethylbenzene	60	63	17	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	60	72	45	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	2	2	13	ug/L	NA	0.15 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]
o-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	280	280	41	ug/L	NA	0.33 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	2.0 U [2 U]
<b>Semivolatile Organics</b>													
1,1'-Biphenyl	--	--	--	ug/L	NA	2.6 U	NA	10 U	10 UJ	10 U [10 U]	10 U [10 U]	NA	10 U [10 U]
2,2'-Oxybis(1-Chloropropane)	--	--	--	ug/L	NA	0.78 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
2,4,5-Trichlorophenol	180	570	--	ug/L	NA	1.2 UJ	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
2,4,6-Trichlorophenol	40	170	5	ug/L	NA	1.7 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
2,4-Dichlorophenol	80	330	11	ug/L	NA	0.85 U	NA	10 U	10 UJ	10 U [10 U]	10 U [10 U]	NA	10 U [10 U]
2,4-Dimethylphenol	120	380	380	ug/L	NA	0.85 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
2,4-Dinitrophenol	12	38	19	ug/L	NA	3.0 UJ	NA	20 U	20 UJ	20 U [20 U]	20 U [20 U]	NA	20 U [20 U]
2,4-Dinitrotoluene	1.1	5.5	--	ug/L	NA	0.79 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
2,6-Dinitrotoluene	--	--	--	ug/L	NA	0.57 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
2-Chloronaphthalene	470	1,500	--	ug/L	NA	0.85 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
2-Chlorophenol	32	130	18	ug/L	NA	1.0 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
2-Methylnaphthalene	24	76	19	ug/L	NA	0.64 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
2-Methylphenol	8,000	33,000	30	ug/L	NA	1.1 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
2-Nitroaniline	--	--	--	ug/L	NA	0.70 U	NA	20 U	20 UJ	20 U [20 U]	20 U [20 U]	NA	20 U [20 U]
2-Nitrophenol	12	38	--	ug/L	NA	2.1 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
3,3'-Dichlorobenzidine	1.6	8.2	0.3	ug/L	NA	0.93 U	NA	20 U	20 UJ	20 U [20 U]	20 U [20 U]	NA	20 U [20 U]

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**Pontiac North Campus**  
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Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW1-02 01/17/02 MWW1-02-GW-011702	MWW1-02 01/17/02 MWW1-02-GW-N	MWW1-02 11/08/02 MWW102GW	MWW1-02 11/08/02 MWW102GW10802	MWW1-02 05/19/03 MWW102W(1-11)	MWW1-02 12/10/03 MWW102GW(1-11)	MWW1-02 05/03/04 MWW102GW (050304)	MWW1-02 05/17/04 MWW102GW051704	MWW1-02 10/26/04 MWW1-02-GW-102604
3-Nitroaniline	--	--	--	ug/L	NA	0.71 U	NA	20 U	20 UJ	20 U [20 U]	20 U [20 U]	NA	20 U [20 U]
4,6-Dinitro-2-methylphenol	20	20	--	ug/L	NA	1.3 U	NA	20 U	20 UJ	20 U [20 U]	20 U [20 U]	NA	20 U [20 U]
4-Bromophenyl-phenylether	--	--	--	ug/L	NA	0.88 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
4-Chloro-3-Methylphenol	400	1,700	7.4	ug/L	NA	0.99 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
4-Chloroaniline	3	9.4	--	ug/L	NA	0.61 U	NA	10 U	10 UJ	10 U [10 U]	10 U [10 U]	NA	10 U [10 U]
4-Chlorophenyl-phenylether	--	--	--	ug/L	NA	0.79 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
4-Methylphenol	--	--	--	ug/L	NA	1.3 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
4-Nitroaniline	--	--	--	ug/L	NA	1.3 U	NA	20 U	20 UJ	20 U [20 U]	20 U [20 U]	NA	20 U [20 U]
4-Nitrophenol	--	--	--	ug/L	NA	1.9 U	NA	20 U	20 UJ	20 U [20 U]	20 UJ [20 UJ]	NA	20 U [20 U]
Acenaphthene	360	1,100	38	ug/L	NA	0.80 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
Acenaphthylene	360	1,100	--	ug/L	NA	0.71 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
Acetophenone	3,200	13,000	--	ug/L	NA	2.6 U	NA	10 U	10 UJ	10 U [10 U]	10 U [10 U]	NA	10 U [10 U]
Anthracene	43	43	--	ug/L	NA	0.68 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
Atrazine	3	3	7.3	ug/L	NA	2.5 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
Benzaldehyde	--	--	--	ug/L	NA	2.8 U	NA	10 U	10 UJ	10 U [10 U]	10 U [10 U]	NA	10 U [10 U]
Benzo(a)anthracene	2.3	9.4	--	ug/L	NA	0.70 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
Benzo(a)pyrene	0.2	0.2	--	ug/L	NA	0.73 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
Benzo(b)fluoranthene	1.5	1.5	--	ug/L	NA	0.94 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
Benzo(g,h,i)perylene	1	1	--	ug/L	NA	0.85 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
Benzo(k)fluoranthene	1	1	--	ug/L	NA	0.84 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 UJ [5 UJ]	NA	5.0 U [5 U]
bis(2-Chloroethoxy)methane	--	--	--	ug/L	NA	0.87 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
bis(2-Chloroethyl)ether	1	3.3	1	ug/L	NA	R	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
bis(2-Ethylhexyl)phthalate	6	6	14	ug/L	NA	2.7 U	NA	5.0 U	5.0 UJ	0.40 J [1.3 J]	5.0 U [5 U]	NA	14 J [5 UJ]
Butylbenzylphthalate	80	330	67	ug/L	NA	0.88 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
Caprolactam	2,000	9,400	--	ug/L	NA	2.5 UJ	NA	10 U	10 UJ	10 U [10 U]	10 U [10 U]	NA	10 U [10 U]
Carbazole	10	38	10	ug/L	NA	0.82 U	NA	10 U	10 UJ	10 U [10 U]	10 U [10 U]	NA	10 U [10 U]
Chrysene	2	2	--	ug/L	NA	0.75 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
Dibenzo(a,h)anthracene	2	2.5	--	ug/L	NA	0.79 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
Dibenzofuran	5.9	19	4	ug/L	NA	1.1 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
Diethylphthalate	4,700	15,000	110	ug/L	NA	0.65 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
Dimethylphthalate	590	1,900	--	ug/L	NA	0.76 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
Di-n-Butylphthalate	27	110	9.7	ug/L	NA	0.67 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
Di-n-Octylphthalate	22	22	--	ug/L	NA	1.1 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
Fluoranthene	240	260	1.6	ug/L	NA	0.81 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
Fluorene	240	760	12	ug/L	NA	1.0 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
Hexachlorobenzene	1	1	0.2	ug/L	NA	0.74 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
Hexachlorocyclopentadiene	50	50	--	ug/L	NA	R	NA	5.0 U	5.0 UJ	R [R]	R [R]	NA	5.0 U [5 U]
Hexachloroethane	5	13	6.7	ug/L	NA	0.74 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
Indeno(1,2,3-cd)pyrene	2	2	--	ug/L	NA	0.63 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
Isophorone	760	3,800	1,300	ug/L	NA	0.63 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
Nitrobenzene	12	38	180	ug/L	NA	0.81 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
N-Nitroso-di-n-propylamine	5	5	--	ug/L	NA	0.67 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
N-Nitrosodiphenylamine	150	750	--	ug/L	NA	1.4 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
Pentachlorophenol	1	1	--	ug/L	NA	2.4 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
Phenanthrene	180	570	2	ug/L	NA	0.82 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
Phenol	1,200	5,700	450	ug/L	NA	2.6 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
Pyrene	140	140	--	ug/L	NA	1.1 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
Hexachloro-1,3-Butadiene	5.9	19	0.053	ug/L	NA	R	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
Naphthalene	590	1,900	11	ug/L	NA	0.75 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]
<b>Inorganics</b>													
Antimony	6	6	130	ug/L	NA	2.2 U	NA	25.0 U	25.0 UJ	25.0 U [25 U]	25.0 U [25 U]	25.0 U	25.0 U [25 U]
Arsenic	10	10	10	ug/L	NA	10.9	NA	5.3 J	2.1 J	10.0 U [10 U]	10.0 U [10 U]	10.0 U	10.0 U [10 U]
Barium	2,000	2,000	670	ug/L	NA	155	NA	137	178 J	200 [186]	216 [216]	212	171 [163]
Beryllium	4	4	6.7	ug/L	NA	0.54 U	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U [1 U]

**Table 1**  
**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW1-02 01/17/02 MWW1-02-GW-011702	MWW1-02 01/17/02 MWW1-02-GW-N	MWW1-02 11/08/02 MWW102GW	MWW1-02 11/08/02 MWW102GW110802	MWW1-02 05/19/03 MWW102W(1-11)	MWW1-02 12/10/03 MWW102GW(1-11)	MWW1-02 05/03/04 MWW102GW (050304)	MWW1-02 05/17/04 MWW102GW051704	MWW1-02 10/26/04 MWW1-02-GW-102604
Cadmium	5	5	2.5	ug/L	NA	0.28 U	NA	5.0 U	5.0 UJ	0.49 J [0.46 J]	5.0 U [5 U]	5.0 U	5.0 U [5 U]
Calcium	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	100	11	ug/L	NA	1.4 U	NA	10.0 U	10.0 UJ	10.0 U [10 U]	10.0 U [10 U]	10.0 U	10.0 U [10 U]
Cobalt	20	20	100	ug/L	NA	1.3 U	NA	20.0 U	20.0 UJ	20.0 U [20 U]	20.0 U [20 U]	20.0 U	20.0 U [20 U]
Copper	30	95	13	ug/L	NA	4.2 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	2.5 J [5 U]	5.0 U	5.0 U [5 U]
Cyanide (total)	--	--	--	ug/L	NA	2.7 J	NA	10.0 U	2.3 J	10.0 U [9.2 J]	10.0 U [3.1 J]	NA	10 U [10 U]
Iron	300	300	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1	1	14	ug/L	NA	2.5 U	NA	3.0 U	3.0 UJ	3.0 U [3 U]	3.0 U [3 U]	3.0 U	3.0 U [3 U]
Magnesium	330,000	1,000,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	50	1,300	ug/L	NA	539 J	NA	448 J	464 J	532 [486]	543 [548]	638	410 [419]
Mercury	2	2	0.0013	ug/L	NA	0.12 J	NA	0.20 U	0.20 UJ	0.20 U [0.2 U]	0.20 U [0.2 U]	0.20 U	0.20 U [0.2 U]
Nickel	36	110	73	ug/L	NA	2.2 U	NA	20.0 U	20.0 UJ	20.0 U [20 U]	20.0 U [20 U]	3.3 J	20.0 U [20 U]
Selenium	50	50	5	ug/L	NA	4.5 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U [5 U]
Silver	5.9	19	0.2	ug/L	NA	1.5 U	NA	5.0 U	5.0 UJ	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U [5 U]
Thallium	2	2	3.7	ug/L	NA	0.018 U	NA	1.0 U	1.0 UJ	1.0 U [0.045 J]	1.0 U [1 U]	1.0 U	1.0 U [1 U]
Vanadium	4	4	27	ug/L	NA	0.82 U	NA	10.0 U	10.0 UJ	10.0 U [10 U]	10.0 U [10 U]	10.0 U	10.0 U [10 U]
Zinc	1,800	5,000	170	ug/L	NA	12.0 U	NA	20.0 U	20.0 UJ	20.0 U [20 U]	20.0 U [15.7 J]	20.0 U	20.0 U [20 U]
<b>Inorganics-Filtered</b>													
Antimony (dissolved)	6	6	130	ug/L	NA	2.2 U	NA	NA	NA	NA	NA	25.0 U	NA
Arsenic (dissolved)	10	10	10	ug/L	NA	12.0	NA	NA	NA	NA	NA	10.0 U	NA
Barium (dissolved)	2,000	2,000	670	ug/L	NA	163	NA	NA	NA	NA	NA	209	NA
Beryllium (dissolved)	4	4	6.7	ug/L	NA	0.54 U	NA	NA	NA	NA	NA	1.0 U	NA
Cadmium (dissolved)	5	5	2.5	ug/L	NA	0.28 U	NA	NA	NA	NA	NA	5.0 U	NA
Chromium (dissolved)	--	--	11	ug/L	NA	1.4 U	NA	NA	NA	NA	NA	10.0 U	NA
Cobalt (dissolved)	20	20	100	ug/L	NA	1.3 U	NA	NA	NA	NA	NA	20.0 U	NA
Copper (dissolved)	30	95	13	ug/L	NA	4.2 U	NA	NA	NA	NA	NA	5.0 U	NA
Iron (dissolved)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (dissolved)	1	1	14	ug/L	NA	2.5 U	NA	NA	NA	NA	NA	3.0 U	NA
Manganese (dissolved)	50	50	1,300	ug/L	NA	558 J	NA	NA	NA	NA	NA	647	NA
Mercury (dissolved)	--	--	0.0013	ug/L	NA	0.069 U	NA	NA	NA	NA	NA	0.20 U	NA
Nickel (dissolved)	36	110	73	ug/L	NA	2.2 U	NA	NA	NA	NA	NA	3.3 J	NA
Selenium (dissolved)	50	50	5	ug/L	NA	4.5 U	NA	NA	NA	NA	NA	5.0 U	NA
Silver (dissolved)	5.9	19	0.2	ug/L	NA	1.5 U	NA	NA	NA	NA	NA	5.0 U	NA
Thallium (dissolved)	2	2	3.7	ug/L	NA	0.018 U	NA	NA	NA	NA	NA	1.0 U	NA
Vanadium (dissolved)	4	4	27	ug/L	NA	0.82 U	NA	NA	NA	NA	NA	10.0 U	NA
Zinc (dissolved)	1,800	5,000	170	ug/L	NA	12.0 U	NA	NA	NA	NA	NA	20.0 U	NA
<b>Miscellaneous</b>													
Alkalinity, total (as CaCO3)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	--	--	--	none	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	500,000	500,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Field</b>													
Conductivity, field	--	--	--	mS/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity, field	--	--	--	umhos/cm	NA	NA	NA	NA	NA	1.74	NA	2.17	NA
Dissolved oxygen (DO), field	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation reduction potential (ORP), field	--	--	--	millivolts	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, ambient	--	--	--	deg f	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, field	--	--	--	deg c	NA	NA	NA	NA	NA	9.48	NA	20.1	NA
Turbidity (field)	--	--	--	NTU	NA	NA	NA	NA	NA	3.62	NA	1.7	NA
<b>Dioxins/Furans</b>													
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	--	pg/L	1.8 U	NA	50 U	NA	6.3 UJ	9.7 U [10 U]	4.3 U [4.8 U]	NA	4.6 U [2.1 U]
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	--	--	--	pg/L	2.2 U	NA	50 U	NA	8.6 UJ	8.6 U [11 U]	2.1 U [1.5 U]	NA	4.5 U [2.9 U]

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**RACER Trust**  
**Pontiac North Campus**  
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Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW1-02 01/17/02 MWW1-02-GW-011702	MWW1-02 01/17/02 MWW1-02-GW-N	MWW1-02 11/08/02 MWW102GW	MWW1-02 11/08/02 MWW102GW110802	MWW1-02 05/19/03 MWW102W(1-11)	MWW1-02 12/10/03 MWW102GW(1-11)	MWW1-02 05/03/04 MWW102GW (050304)	MWW1-02 05/17/04 MWW102GW051704	MWW1-02 10/26/04 MWW1-02-GW-102604
1,2,3,4,6,7,8-HpCDD	--	--	--	pg/L	1.2 U	NA	25 U	NA	4.0 UJ	5.1 U [5.4 U]	2.2 U [2.3 U]	NA	1.9 U [0.62 U]
1,2,3,4,6,7,8-HpCDF	--	--	--	pg/L	0.8 U	NA	25 U	NA	3.9 UJ	3.3 U [3.5 U]	0.76 U [0.87 U]	NA	1.1 U [0.54 U]
1,2,3,4,7,8,9-HpCDF	--	--	--	pg/L	1 U	NA	25 U	NA	3.7 UJ	3.8 U [4.1 U]	0.97 U [1.1 U]	NA	1.3 U [0.64 U]
1,2,3,4,7,8-HxCDD	--	--	--	pg/L	0.8 U	NA	25 U	NA	4.2 UJ	5.6 U [5.4 U]	1.4 U [1.4 U]	NA	1.8 U [1.9 U]
1,2,3,4,7,8-HxCDF	--	--	--	pg/L	0.5 U	NA	25 U	NA	4.8 UJ	4.7 U [5.2 U]	1.0 U [1.5 U]	NA	0.67 U [0.72 U]
1,2,3,6,7,8-HxCDD	--	--	--	pg/L	0.9 U	NA	25 U	NA	4.4 UJ	5.3 U [5.2 U]	1.1 U [1.1 U]	NA	1.4 U [1.5 U]
1,2,3,6,7,8-HxCDF	--	--	--	pg/L	0.5 U	NA	25 U	NA	4.7 UJ	4.4 U [4.7 U]	0.85 U [1.3 U]	NA	0.56 U [0.61 U]
1,2,3,7,8,9-HxCDD	--	--	--	pg/L	0.8 U	NA	25 U	NA	4.0 UJ	5.2 U [5 U]	1.2 U [1.2 U]	NA	1.4 U [1.5 U]
1,2,3,7,8,9-HxCDF	--	--	--	pg/L	0.7 U	NA	25 U	NA	5.3 UJ	5.0 U [5.5 U]	1.1 U [1.7 U]	NA	0.72 U [0.78 U]
1,2,3,7,8-PeCDD	--	--	--	pg/L	1.3 U	NA	10 U	NA	4.0 UJ	5.0 U [6 U]	2.7 U [3.2 U]	NA	1.7 U [2.1 U]
1,2,3,7,8-PeCDF	--	--	--	pg/L	1 U	NA	10 U	NA	2.6 UJ	3.6 U [3.7 U]	1.1 U [1.2 U]	NA	1.2 U [1.1 U]
2,3,4,6,7,8-HxCDF	--	--	--	pg/L	0.6 U	NA	25 U	NA	4.9 UJ	4.6 U [5 U]	0.97 U [1.5 U]	NA	0.65 U [0.7 U]
2,3,4,7,8-PeCDF	--	--	--	pg/L	0.9 U	NA	10 U	NA	2.6 UJ	3.5 U [3.6 U]	1.1 U [1.2 U]	NA	1.2 U [1.1 U]
2,3,7,8-TCDD	<b>30</b>	<b>30</b>	<b>10</b>	pg/L	1.2 U	NA	10 U	NA	2.1 UJ	3.5 U [3.3 U]	0.84 U [0.96 U]	NA	0.83 U [0.82 U]
2,3,7,8-TCDF	--	--	--	pg/L	0.9 U	NA	10 U	NA	1.6 UJ	2.2 U [2.7 U]	1.0 U [1 U]	NA	2.6 U [2.2 U]
Total heptachlorodibenzofuran (HpCDF)	--	--	--	pg/L	0.8 U	NA	NA	NA	NA	NA	NA	NA	1.3 U [0.64 U]
Total heptachlorodibenzo-p-dioxin (HpCDD)	--	--	--	pg/L	1.2 U	NA	NA	NA	NA	NA	NA	NA	1.9 U [0.62 U]
Total hexachlorodibenzofuran (HxCDF)	--	--	--	pg/L	0.6 U	NA	NA	NA	NA	NA	NA	NA	0.72 U [0.78 U]
Total hexachlorodibenzo-p-dioxin (HxCDD)	--	--	--	pg/L	0.9 U	NA	NA	NA	NA	NA	NA	NA	1.8 U [1.9 U]
Total pentachlorodibenzofuran (PeCDF)	--	--	--	pg/L	0.9 U	NA	NA	NA	NA	NA	NA	NA	2.0 U [1.9 U]
Total pentachlorodibenzo-p-dioxin (PeCDD)	--	--	--	pg/L	12 J	NA	NA	NA	NA	NA	NA	NA	1.7 U [2.1 U]
Total TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzofuran (TCDF)	--	--	--	pg/L	0.9 U	NA	NA	NA	NA	NA	NA	NA	2.6 U [2.2 U]
Total tetrachlorodibenzo-p-dioxin (TCDD)	--	--	--	pg/L	1.2 U	NA	NA	NA	NA	NA	NA	NA	0.83 U [0.82 U]

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**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW1-02 05/11/05 MWW1-02-GW-051105	MWW1-02 05/11/05 MWW1-02-GW-051105R2	MWW1-02 11/02/05 MWW1-02-GW-110205FD	MWW1-02 05/17/06 MWW1-02-GW-051706	MWW1-02 11/13/06 MWW1-02-WG-111306	MWW1-02 05/03/07 MWW1-02-GW-05-03-07	MWW1-02 11/07/07 MWW1-02-GW-110707	MWW1-02 05/07/08 MWW1-02-GW-050708	MWW1-02 05/07/08 MWW1-02-GW-050708-FP
<b>PCBs</b>													
Aroclor-1016	0.5	0.5	0.2	ug/L	0.20 U	NA	0.20 U [0.2 U]	0.20 U [0.2 U]	0.20 U	0.20 U	0.20 U	0.20 U	NA
Aroclor-1221	0.5	0.5	0.2	ug/L	0.20 U	NA	0.20 U [0.2 U]	0.20 U [0.2 U]	0.20 U	0.20 U	0.20 U	0.20 U	NA
Aroclor-1232	0.5	0.5	0.2	ug/L	0.40 U	NA	0.40 U [0.4 U]	0.40 U [0.4 U]	0.40 U	0.40 U	0.40 U	0.40 U	NA
Aroclor-1242	0.5	0.5	0.2	ug/L	0.20 U	NA	0.20 U [0.2 U]	0.20 U [0.2 U]	0.20 U	0.20 U	0.20 U	0.20 U	NA
Aroclor-1248	0.5	0.5	0.2	ug/L	0.20 U	NA	0.20 U [0.2 U]	0.20 U [0.2 U]	0.20 U	0.20 U	0.20 U	0.20 U	NA
Aroclor-1254	0.5	0.5	0.2	ug/L	0.20 U	NA	0.20 U [0.2 U]	0.20 U [0.2 U]	0.20 U	0.20 U	0.20 U	0.20 U	NA
Aroclor-1260	0.5	0.5	0.2	ug/L	0.20 U	NA	0.20 U [0.2 U]	0.20 U [0.2 U]	0.20 U	0.20 U	0.20 U	0.20 U	NA
<b>PCBs-Filtered</b>													
Aroclor-1016 (PCB-1016) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Volatile Organics</b>													
1,2,3-Trimethylbenzene	60	130	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	24	76	19	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	2	6.8	2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	13	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	3,600	17,000	11,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	5,300	17,000	1,700	ug/L	10 U	NA	10 U [3.1 J]	1.3 J [1.7 J]	10 U	10 U	10 U	10 U	NA
Benzene	5	5	200	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
Bromobenzene	47	150	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	80	80	--	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
Bromoform	80	80	--	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
Bromomethane	120	380	5	ug/L	1.0 UJ	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 UJ	1.0 U	1.0 U	1.0 U	NA
2-Butanone	2,400	11,000	2,200	ug/L	10 U	NA	10 U [10 U]	10 U [10 U]	10 U	10 U	10 U	10 U	NA
n-Butylbenzene	270	870	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	440	1,800	--	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
Carbon Tetrachloride	5	5	38	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
CFC-11	1,800	5,700	--	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
CFC-12	30	94	--	ug/L	2.0 U	NA	2.0 U [2 U]	2.0 U [2 U]	2.0 U	2.0 U	2.0 U	2.0 U	NA
Chlorobenzene	100	100	25	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
Chlorobromomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorodibromomethane	80	80	--	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
Chloroethane	240	760	1,100	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
Chloroform	80	80	350	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
Chloromethane	220	1,100	--	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	0.39 J	1.0 U	NA
Cyclohexane	--	--	--	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
Cymene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.2	0.2	--	ug/L	2.0 U	NA	2.0 U [2 U]	2.0 U [2 U]	2.0 U	2.0 UJ	2.0 U	2.0 U	NA
1,2-Dibromoethane	0.05	0.05	5.7	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
Dibromomethane	18	57	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	600	13	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,3-Dichlorobenzene	12	38	28	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,4-Dichlorobenzene	75	75	17	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA

**Table 1**  
**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW1-02 05/11/05 MWW1-02-GW-051105	MWW1-02 05/11/05 MWW1-02-GW-051105R2	MWW1-02 11/02/05 MWW1-02-GW-110205FD	MWW1-02 05/17/06 MWW1-02-GW-051706	MWW1-02 11/13/06 MWW1-02-WG-111306	MWW1-02 05/03/07 MWW1-02-GW-05-03-07	MWW1-02 11/07/07 MWW1-02-GW-110707	MWW1-02 05/07/08 MWW1-02-GW-050708	MWW1-02 05/07/08 MWW1-02-GW-050708-FP
1,1-Dichloroethane	1,200	3,800	740	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,2-Dichloroethane	5	5	360	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,1-Dichloroethene	7	7	130	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
cis-1,2-Dichloroethene	70	70	620	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
trans-1,2-Dichloroethene	100	100	1,500	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
Dichloromethane	5	5	1,500	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,2-Dichloropropane	5	5	230	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
cis-1,3-Dichloropropene	--	--	--	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
trans-1,3-Dichloropropene	--	--	--	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
Diethyl Ether	5	5	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	7.2	37	2,800	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	66	74	18	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
Isopropylbenzene	590	1,900	28	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
Methyl acetate	--	--	--	ug/L	10 U	NA	10 U [10 U]	10 U [10 U]	10 U	10 U	10 U	10 U	NA
Methyl N-Butyl Ketone	50	94	--	ug/L	10 U	NA	10 U [10 U]	10 U [10 U]	10 U	10 U	10 U	10 U	NA
Methylcyclohexane	--	--	--	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
4-Methyl-2-pentanone	300	940	--	ug/L	10 U	NA	10 U [10 U]	10 U [10 U]	10 U	10 U	10 U	10 U	NA
Methyl tert-butyl ether	40	40	7,100	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Naphthalene	590	1,900	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	100	80	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,1,1,2-Tetrachloroethane	28	140	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	3.6	18	78	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
Tetrachloroethene	5	5	60	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
Toluene	470	790	270	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,2,3-Trichlorobenzene	16	51	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	70	99	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,1,1-Trichloroethane	200	200	89	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,1,2-Trichloroethane	5	5	330	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
Trichloroethene	5	5	200	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,2,3-Trichloropropane	1	1	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	160,000	170,000	32	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,2,4-Trimethylbenzene	60	63	17	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	60	72	45	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	2	2	13	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
o-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	280	280	41	ug/L	2.0 U	NA	2.0 U [2 U]	2.0 U [2 U]	2.0 U	2.0 U	2.0 U	2.0 U	NA
<b>Semivolatile Organics</b>													
1,1'-Biphenyl	--	--	--	ug/L	10 U	NA	10 U [10 U]	10 U [10 U]	10 U	10 U	10 U	10 U	NA
2,2'-Oxybis(1-Chloropropane)	--	--	--	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
2,4,5-Trichlorophenol	180	570	--	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
2,4,6-Trichlorophenol	40	170	5	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
2,4-Dichlorophenol	80	330	11	ug/L	10 U	NA	10 U [10 U]	10 U [10 U]	10 U	10 U	10 U	10 U	NA
2,4-Dimethylphenol	120	380	380	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
2,4-Dinitrophenol	12	38	19	ug/L	20 U	NA	20 U [20 U]	20 U [20 U]	20 U	20 U	20 U	20 U	NA
2,4-Dinitrotoluene	1.1	5.5	--	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
2,6-Dinitrotoluene	--	--	--	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
2-Chloronaphthalene	470	1,500	--	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
2-Chlorophenol	32	130	18	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
2-Methylnaphthalene	24	76	19	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
2-Methylphenol	8,000	33,000	30	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
2-Nitroaniline	--	--	--	ug/L	20 U	NA	20 U [20 U]	20 U [20 U]	20 U	20 U	20 U	20 U	NA
2-Nitrophenol	12	38	--	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
3,3'-Dichlorobenzidine	1.6	8.2	0.3	ug/L	20 U	NA	20 U [20 U]	20 U [20 U]	20 U	20 U	20 U	R	NA

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**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW1-02 05/11/05 MWW1-02-GW-051105	MWW1-02 05/11/05 MWW1-02-GW-051105R2	MWW1-02 11/02/05 MWW1-02-GW-110205FD	MWW1-02 05/17/06 MWW1-02-GW-051706	MWW1-02 11/13/06 MWW1-02-WG-111306	MWW1-02 05/03/07 MWW1-02-GW-05-03-07	MWW1-02 11/07/07 MWW1-02-GW-110707	MWW1-02 05/07/08 MWW1-02-GW-050708	MWW1-02 05/07/08 MWW1-02-GW-050708-FP
3-Nitroaniline	--	--	--	ug/L	20 U	NA	20 U [20 U]	20 U [20 U]	20 U	20 U	20 U	20 U	NA
4,6-Dinitro-2-methylphenol	20	20	--	ug/L	20 U	NA	20 U [20 U]	20 U [20 U]	20 U	20 U	20 U	20 U	NA
4-Bromophenyl-phenylether	--	--	--	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
4-Chloro-3-Methylphenol	400	1,700	7.4	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
4-Chloroaniline	3	9.4	--	ug/L	10 U	NA	10 U [10 U]	10 U [10 U]	10 U	10 U	10 U	10 U	NA
4-Chlorophenyl-phenylether	--	--	--	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
4-Methylphenol	--	--	--	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
4-Nitroaniline	--	--	--	ug/L	20 U	NA	20 U [20 U]	20 U [20 U]	20 U	20 U	20 U	20 U	NA
4-Nitrophenol	--	--	--	ug/L	20 U	NA	20 U [20 U]	20 U [20 U]	20 U	20 U	20 U	20 U	NA
Acenaphthene	360	1,100	38	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Acenaphthylene	360	1,100	--	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Acetophenone	3,200	13,000	--	ug/L	10 U	NA	10 U [10 U]	10 U [10 U]	10 U	10 U	10 U	10 U	NA
Anthracene	43	43	--	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Atrazine	3	3	7.3	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Benzaldehyde	--	--	--	ug/L	10 U	NA	10 U [10 U]	10 U [10 U]	10 U	10 U	10 U	10 U	NA
Benzo(a)anthracene	2.3	9.4	--	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Benzo(a)pyrene	0.2	0.2	--	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Benzo(b)fluoranthene	1.5	1.5	--	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Benzo(g,h,i)perylene	1	1	--	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Benzo(k)fluoranthene	1	1	--	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
bis(2-Chloroethoxy)methane	--	--	--	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
bis(2-Chloroethyl)ether	1	3.3	1	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
bis(2-Ethylhexyl)phthalate	6	6	14	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Butylbenzylphthalate	80	330	67	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Caprolactam	2,000	9,400	--	ug/L	10 U	NA	10 U [10 U]	10 U [10 U]	10 U	10 U	10 U	10 U	NA
Carbazole	10	38	10	ug/L	10 U	NA	10 U [10 U]	10 U [10 U]	10 U	10 U	10 U	10 U	NA
Chrysene	2	2	--	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Dibenzo(a,h)anthracene	2	2.5	--	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Dibenzofuran	5.9	19	4	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Diethylphthalate	4,700	15,000	110	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Dimethylphthalate	590	1,900	--	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Di-n-Butylphthalate	27	110	9.7	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Di-n-Octylphthalate	22	22	--	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Fluoranthene	240	260	1.6	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Fluorene	240	760	12	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Hexachlorobenzene	1	1	0.2	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Hexachlorocyclopentadiene	50	50	--	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Hexachloroethane	5	13	6.7	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Indeno(1,2,3-cd)pyrene	2	2	--	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Isophorone	760	3,800	1,300	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Nitrobenzene	12	38	180	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
N-Nitroso-di-n-propylamine	5	5	--	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
N-Nitrosodiphenylamine	150	750	--	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Pentachlorophenol	1	1	--	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Phenanthrene	180	570	2	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Phenol	1,200	5,700	450	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Pyrene	140	140	--	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Hexachloro-1,3-Butadiene	5.9	19	0.053	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Naphthalene	590	1,900	11	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
<b>Inorganics</b>													
Antimony	6	6	130	ug/L	25.0 U	NA	25.0 U [25 U]	4.5 J [25 U]	25.0 U	25.0 U	25.0 U	25.0 U	NA
Arsenic	10	10	10	ug/L	10.0 U	NA	10.0 U [10 U]	1.0 J [0.97 J]	2.0 U	0.51 J	2.0 U	0.81 J	NA
Barium	2,000	2,000	670	ug/L	147	NA	147 [147]	116 [123]	126	90.7	99.8	66.4 J	NA
Beryllium	4	4	6.7	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA

**Table 1**  
**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW1-02 05/11/05 MWW1-02-GW-051105	MWW1-02 05/11/05 MWW1-02-GW-051105R2	MWW1-02 11/02/05 MWW1-02-GW-110205FD	MWW1-02 05/17/06 MWW1-02-GW-051706	MWW1-02 11/13/06 MWW1-02-WG-111306	MWW1-02 05/03/07 MWW1-02-GW-05-03-07	MWW1-02 11/07/07 MWW1-02-GW-110707	MWW1-02 05/07/08 MWW1-02-GW-050708	MWW1-02 05/07/08 MWW1-02-GW-050708-FP
Cadmium	5	5	2.5	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Calcium	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	100	11	ug/L	10.0 U	NA	10.0 U [5.8 J]	10.0 U [10 U]	10.0 U	10.0 U	10.0 U	10.0 U	NA
Cobalt	20	20	100	ug/L	20.0 U	NA	20.0 U [20 U]	20.0 U [20 U]	20.0 U	20.0 U	20.0 U	20.0 U	NA
Copper	30	95	13	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Cyanide (total)	--	--	--	ug/L	10 U	NA	10 U [10 U]	10 U [10 U]	7.3 J	10 U	10 U	10 U	NA
Iron	300	300	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1	1	14	ug/L	3.0 U	NA	3.0 U [3 U]	3.0 U [3 U]	3.0 U	3.0 U	3.0 U	3.0 U	NA
Magnesium	330,000	1,000,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	50	1,300	ug/L	447	NA	409 J [414 J]	376 J [400 J]	421 J	262	374	187 J	NA
Mercury	2	2	0.0013	ug/L	0.20 U	NA	0.20 U [0.2 U]	0.20 U [0.2 U]	0.20 U	0.20 U	0.20 U	0.20 U	NA
Nickel	36	110	73	ug/L	20.0 U	NA	20.0 U [4.3 J]	20.0 U [20 U]	32.4	20.0 U	20.0 U	20.0 U	NA
Selenium	50	50	5	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Silver	5.9	19	0.2	ug/L	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U	NA
Thallium	2	2	3.7	ug/L	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U	NA
Vanadium	4	4	27	ug/L	10.0 U	NA	10.0 U [10 U]	10.0 U [10 U]	10.0 U	10.0 U	10.0 U	10.0 U	NA
Zinc	1,800	5,000	170	ug/L	20.0 U	NA	20.0 U [20 U]	20.0 U [20 U]	20.0 U	20.0 U	20.0 U	20.0 U	NA
<b>Inorganics-Filtered</b>													
Antimony (dissolved)	6	6	130	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (dissolved)	10	10	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (dissolved)	2,000	2,000	670	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (dissolved)	4	4	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (dissolved)	5	5	2.5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (dissolved)	--	--	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (dissolved)	20	20	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (dissolved)	30	95	13	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (dissolved)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (dissolved)	1	1	14	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (dissolved)	50	50	1,300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (dissolved)	--	--	0.0013	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (dissolved)	36	110	73	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (dissolved)	50	50	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (dissolved)	5.9	19	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (dissolved)	2	2	3.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (dissolved)	4	4	27	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (dissolved)	1,800	5,000	170	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous</b>													
Alkalinity, total (as CaCO3)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	--	--	--	none	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	500,000	500,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Field</b>													
Conductivity, field	--	--	--	mS/cm	NA	NA	NA	NA	1.47	NA	NA	NA	NA
Conductivity, field	--	--	--	umhos/cm	NA	NA	NA	NA	NA	1,580	1,063	NA	0.951
Dissolved oxygen (DO), field	--	--	--	ug/L	NA	NA	NA	NA	310	280	390	NA	1,300
Oxidation reduction potential (ORP), field	--	--	--	millivolts	NA	NA	NA	NA	-53.0	-92.0	-89.0	NA	-62.0
Temperature, ambient	--	--	--	deg f	NA	NA	NA	NA	40	NA	35	NA	65
Temperature, field	--	--	--	deg c	NA	NA	NA	NA	10.21	11.46	13.75	NA	13.66
Turbidity (field)	--	--	--	NTU	NA	NA	NA	NA	3.87	0.6	4.2	NA	NA
<b>Dioxins/Furans</b>													
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	--	pg/L	NA	2.4 U	13 U [18 U]	16 U [16 U]	3.8 U	19 U	14 U	2.4 U	NA
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	--	--	--	pg/L	NA	5.3 U	15 U [12 U]	18 U [28 U]	14 U	15 U	13 U	15 U	NA

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**RACER Trust**  
**Pontiac North Campus**  
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Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW1-02 05/11/05 MWW1-02-GW-051105	MWW1-02 05/11/05 MWW1-02-GW-051105R2	MWW1-02 11/02/05 MWW1-02-GW-110205FD	MWW1-02 05/17/06 MWW1-02-GW-051706	MWW1-02 11/13/06 MWW1-02-WG-111306	MWW1-02 05/03/07 MWW1-02-GW-05-03-07	MWW1-02 11/07/07 MWW1-02-GW-110707	MWW1-02 05/07/08 MWW1-02-GW-050708	MWW1-02 05/07/08 MWW1-02-GW-050708-FP
1,2,3,4,6,7,8-HpCDD	--	--	--	pg/L	NA	1.5 U	12 U [12 U]	14 U [22 U]	2.7 U	9.7 U	7.9 U	1.7 U	NA
1,2,3,4,6,7,8-HpCDF	--	--	--	pg/L	NA	1.4 U	5.8 U [4.9 U]	14 U [16 U]	2.0 U	8.2 U	4.7 U	1.3 U	NA
1,2,3,4,7,8,9-HpCDF	--	--	--	pg/L	NA	1.3 U	7.3 U [6.2 U]	7.1 U [6.6 U]	2.3 U	9.4 U	5.5 U	1.5 U	NA
1,2,3,4,7,8-HxCDD	--	--	--	pg/L	NA	1.7 U	8.9 U [9.6 U]	9.4 U [8.5 U]	2.4 U	8.9 U	7.1 U	1.4 U	NA
1,2,3,4,7,8-HxCDF	--	--	--	pg/L	NA	2.1 U	5.9 U [5.9 U]	8.3 U [8.1 U]	2.2 U	6.4 U	4.1 U	1.1 U	NA
1,2,3,6,7,8-HxCDD	--	--	--	pg/L	NA	1.5 U	6.8 U [7.4 U]	8.6 U [7.7 U]	2.3 U	8.8 U	7.7 U	1.4 U	NA
1,2,3,6,7,8-HxCDF	--	--	--	pg/L	NA	2.0 U	5.2 U [5.2 U]	7.7 U [7.4 U]	2.0 U	6.0 U	4.0 U	1.1 U	NA
1,2,3,7,8,9-HxCDD	--	--	--	pg/L	NA	1.6 U	7.8 U [8.4 U]	8.3 U [7.5 U]	2.2 U	8.3 U	5.9 U	1.2 U	NA
1,2,3,7,8,9-HxCDF	--	--	--	pg/L	NA	2.5 U	8.0 U [8 U]	8.7 U [8.4 U]	2.5 U	7.1 U	4.2 U	1.2 U	NA
1,2,3,7,8-PeCDD	--	--	--	pg/L	NA	1.9 U	8.4 U [9.2 U]	17 U [16 U]	3.3 U	13 U	7.6 U	2.5 U	NA
1,2,3,7,8-PeCDF	--	--	--	pg/L	NA	1.4 U	5.4 U [5.6 U]	11 U [10 U]	1.9 U	8.7 U	5.0 U	1.4 U	NA
2,3,4,6,7,8-HxCDF	--	--	--	pg/L	NA	2.2 U	6.5 U [6.6 U]	8.4 U [8.1 U]	2.2 U	7.0 U	4.2 U	1.1 U	NA
2,3,4,7,8-PeCDF	--	--	--	pg/L	NA	1.4 U	5.4 U [5.6 U]	11 U [10 U]	1.9 U	8.8 U	5.1 U	1.5 U	NA
2,3,7,8-TCDD	<b>30</b>	<b>30</b>	<b>10</b>	pg/L	NA	0.99 U	4.3 U [4.3 U]	9.3 U [8.9 U]	1.4 U	8.1 U	4.7 U	1.2 U	NA
2,3,7,8-TCDF	--	--	--	pg/L	NA	1.4 U	3.7 U [3.5 U]	8.5 U [9.4 U]	1.5 U	5.1 U	3.6 U	0.98 U	NA
Total heptachlorodibenzofuran (HpCDF)	--	--	--	pg/L	NA	1.4 U	7.3 U [6.2 U]	14 U [16 U]	2.3 U	9.4 U	5.5 U	1.9 U	NA
Total heptachlorodibenzo-p-dioxin (HpCDD)	--	--	--	pg/L	NA	1.5 U	12 U [12 U]	14 U [22 U]	2.7 U	9.7 U	7.9 U	2.1 U	NA
Total hexachlorodibenzofuran (HxCDF)	--	--	--	pg/L	NA	2.5 U	8.0 U [8 U]	8.7 U [8.4 U]	2.5 U	7.1 U	4.2 U	1.2 U	NA
Total hexachlorodibenzo-p-dioxin (HxCDD)	--	--	--	pg/L	NA	1.7 U	8.9 U [9.6 U]	9.4 U [8.5 U]	2.4 U	8.9 U	7.7 U	1.4 U	NA
Total pentachlorodibenzofuran (PeCDF)	--	--	--	pg/L	NA	1.8 U	5.4 U [5.6 U]	11 U [12 U]	1.9 U	8.8 U	5.1 U	1.5 U	NA
Total pentachlorodibenzo-p-dioxin (PeCDD)	--	--	--	pg/L	NA	1.9 U	8.4 U [9.2 U]	17 U [16 U]	9.5 U	13 U	8.4 U	2.5 U	NA
Total TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzofuran (TCDF)	--	--	--	pg/L	NA	1.4 U	3.7 U [3.5 U]	8.5 U [9.4 U]	1.5 U	5.1 U	3.6 U	0.98 U	NA
Total tetrachlorodibenzo-p-dioxin (TCDD)	--	--	--	pg/L	NA	0.99 U	4.3 U [4.3 U]	9.3 U [8.9 U]	1.4 U	8.1 U	4.7 U	1.2 U	NA

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**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW1-02 11/06/08 MWW1-02-GW-110608	MWW1-02 11/06/08 MWW1-02-GW-110608-FP	MWW1-02 11/06/08 MWW1-02-GW-110608R2	MWW1-02 08/21/13 MWW1-02_08212013	MWW1-03 01/17/02 MWW1-03-GW-011702	MWW1-03 01/17/02 MWW1-03-GW-N	MWW1-03 11/08/02 MWW103GW	MWW1-03 11/08/02 MWW103GW110802	MWW1-03 05/19/03 MWW103W(1-11)
<b>PCBs</b>													
Aroclor-1016	0.5	0.5	0.2	ug/L	0.20 U	NA	NA	0.098 U	NA	0.054 U	NA	0.20 U	0.20 UJ
Aroclor-1221	0.5	0.5	0.2	ug/L	0.20 U	NA	NA	0.098 U	NA	0.11 U	NA	0.20 U	0.20 UJ
Aroclor-1232	0.5	0.5	0.2	ug/L	0.40 U	NA	NA	0.098 U	NA	0.056 U	NA	0.40 U	0.40 UJ
Aroclor-1242	0.5	0.5	0.2	ug/L	0.20 U	NA	NA	0.098 U	NA	0.075 U	NA	0.20 U	0.20 UJ
Aroclor-1248	0.5	0.5	0.2	ug/L	0.20 U	NA	NA	0.098 U	NA	0.061 U	NA	0.20 U	0.20 UJ
Aroclor-1254	0.5	0.5	0.2	ug/L	0.20 U	NA	NA	0.098 U	NA	0.082 U	NA	0.20 U	0.20 UJ
Aroclor-1260	0.5	0.5	0.2	ug/L	0.20 U	NA	NA	0.098 U	NA	0.044 U	NA	0.20 U	0.20 UJ
<b>PCBs-Filtered</b>													
Aroclor-1016 (PCB-1016) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Volatile Organics</b>													
1,2,3-Trimethylbenzene	60	130	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	24	76	19	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	2	6.8	2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	13	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	3,600	17,000	11,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	5,300	17,000	1,700	ug/L	1.6 J	NA	NA	2.0 J	NA	0.51 UJ	NA	1.1 J	10 UJ
Benzene	5	5	200	ug/L	1.0 U	NA	NA	1.0 U	NA	0.16 U	NA	1.0 U	1.0 UJ
Bromobenzene	47	150	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	80	80	--	ug/L	1.0 U	NA	NA	1.0 U	NA	0.17 U	NA	1.0 U	1.0 UJ
Bromoform	80	80	--	ug/L	1.0 U	NA	NA	1.0 U	NA	0.18 UJ	NA	1.0 U	1.0 UJ
Bromomethane	120	380	5	ug/L	1.0 U	NA	NA	1.0 U	NA	0.20 UJ	NA	1.0 U	1.0 UJ
2-Butanone	2,400	11,000	2,200	ug/L	10 U	NA	NA	25 U	NA	0.41 U	NA	10 U	10 UJ
n-Butylbenzene	270	870	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	440	1,800	--	ug/L	1.0 U	NA	NA	5.0 U	NA	0.20 U	NA	1.0 U	1.0 UJ
Carbon Tetrachloride	5	5	38	ug/L	1.0 U	NA	NA	1.0 U*	NA	0.12 U	NA	1.0 U	1.0 UJ
CFC-11	1,800	5,700	--	ug/L	1.0 U	NA	NA	1.0 U	NA	0.28 U	NA	1.0 U	1.0 UJ
CFC-12	30	94	--	ug/L	2.0 UJ	NA	NA	1.0 U	NA	0.26 U	NA	2.0 U	2.0 UJ
Chlorobenzene	100	100	25	ug/L	1.0 U	NA	NA	1.0 U	NA	0.14 U	NA	1.0 U	1.0 UJ
Chlorobromomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorodibromomethane	80	80	--	ug/L	1.0 U	NA	NA	1.0 U*	NA	0.26 U	NA	1.0 U	1.0 UJ
Chloroethane	240	760	1,100	ug/L	1.0 U	NA	NA	1.0 U	NA	0.26 U	NA	1.0 U	1.0 UJ
Chloroform	80	80	350	ug/L	1.0 U	NA	NA	1.0 U	NA	0.14 U	NA	1.0 U	1.0 UJ
Chloromethane	220	1,100	--	ug/L	1.0 U	NA	NA	1.0 U	NA	0.13 U	NA	1.0 U	1.0 UJ
Cyclohexane	--	--	--	ug/L	1.0 UJ	NA	NA	1.0 U	NA	0.13 U	NA	1.0 U	1.0 UJ
Cymene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.2	0.2	--	ug/L	2.0 U	NA	NA	1.0 U	NA	0.62 U	NA	2.0 U	2.0 UJ
1,2-Dibromoethane	0.05	0.05	5.7	ug/L	1.0 U	NA	NA	1.0 U	NA	0.22 U	NA	1.0 U	1.0 UJ
Dibromomethane	18	57	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	600	13	ug/L	1.0 U	NA	NA	1.0 U	NA	0.11 U	NA	1.0 U	1.0 UJ
1,3-Dichlorobenzene	12	38	28	ug/L	1.0 U	NA	NA	1.0 U	NA	0.15 U	NA	1.0 U	1.0 UJ
1,4-Dichlorobenzene	75	75	17	ug/L	1.0 U	NA	NA	1.0 U	NA	0.17 U	NA	1.0 U	1.0 UJ

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**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW1-02 11/06/08 MWW1-02-GW-110608	MWW1-02 11/06/08 MWW1-02-GW-110608-FP	MWW1-02 11/06/08 MWW1-02-GW-110608R2	MWW1-02 08/21/13 MWW1-02_08212013	MWW1-03 01/17/02 MWW1-03-GW-011702	MWW1-03 01/17/02 MWW1-03-GW-N	MWW1-03 11/08/02 MWW103GW	MWW1-03 11/08/02 MWW103GW110802	MWW1-03 05/19/03 MWW103W(1-11)
1,1-Dichloroethane	1,200	3,800	740	ug/L	1.0 U	NA	NA	1.0 U	NA	0.16 U	NA	1.0 U	1.0 UJ
1,2-Dichloroethane	5	5	360	ug/L	1.0 U	NA	NA	1.0 U	NA	0.21 U	NA	1.0 U	1.0 UJ
1,1-Dichloroethene	7	7	130	ug/L	1.0 U	NA	NA	1.0 U	NA	0.24 U	NA	1.0 U	1.0 UJ
cis-1,2-Dichloroethene	70	70	620	ug/L	1.0 U	NA	NA	1.0 U	NA	0.22 U	NA	0.50 U	0.50 UJ
trans-1,2-Dichloroethene	100	100	1,500	ug/L	1.0 U	NA	NA	1.0 U	NA	0.15 U	NA	0.50 U	0.50 UJ
Dichloromethane	5	5	1,500	ug/L	1.0 U	NA	NA	5.0 U	NA	0.34 U	NA	1.0 U	1.0 UJ
1,2-Dichloropropane	5	5	230	ug/L	1.0 U	NA	NA	1.0 U	NA	0.17 U	NA	1.0 U	1.0 UJ
cis-1,3-Dichloropropene	--	--	--	ug/L	1.0 UJ	NA	NA	1.0 U	NA	0.12 U	NA	1.0 U	1.0 UJ
trans-1,3-Dichloropropene	--	--	--	ug/L	1.0 UJ	NA	NA	1.0 U*	NA	0.27 U	NA	1.0 U	1.0 UJ
Diethyl Ether	5	5	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	7.2	37	2,800	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	66	74	18	ug/L	1.0 UJ	NA	NA	1.0 U	NA	0.12 U	NA	1.0 U	1.0 UJ
Isopropylbenzene	590	1,900	28	ug/L	1.0 U	NA	NA	5.0 U	NA	0.12 U	NA	1.0 U	1.0 UJ
Methyl acetate	--	--	--	ug/L	10 U	NA	NA	10 U	NA	0.41 U	NA	10 U	10 UJ
Methyl N-Butyl Ketone	50	94	--	ug/L	10 U	NA	NA	50 U	NA	0.46 UJ	NA	10 U	10 UJ
Methylcyclohexane	--	--	--	ug/L	1.0 UJ	NA	NA	1.0 U	NA	0.15 U	NA	1.0 U	1.0 UJ
4-Methyl-2-pentanone	300	940	--	ug/L	10 U	NA	NA	50 U	NA	0.23 U	NA	10 U	10 UJ
Methyl tert-butyl ether	40	40	7,100	ug/L	5.0 U	NA	NA	5.0 U	NA	0.13 U	NA	5.0 U	5.0 UJ
Naphthalene	590	1,900	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	100	80	ug/L	1.0 U	NA	NA	1.0 U	NA	0.15 U	NA	1.0 U	R
1,1,1,2-Tetrachloroethane	28	140	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1,2,2-Tetrachloroethane	3.6	18	78	ug/L	1.0 UJ	NA	NA	1.0 U	NA	0.25 U	NA	1.0 U	1.0 UJ
Tetrachloroethene	5	5	60	ug/L	1.0 U	NA	NA	1.0 U	NA	0.23 U	NA	1.0 U	1.0 UJ
Toluene	470	790	270	ug/L	1.0 U	NA	NA	1.0 U	NA	0.18 U	NA	1.0 U	1.0 UJ
1,2,3-Trichlorobenzene	16	51	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	70	99	ug/L	1.0 U	NA	NA	1.0 U	NA	0.17 U	NA	1.0 U	1.0 UJ
1,1,1-Trichloroethane	200	200	89	ug/L	1.0 U	NA	NA	1.0 U	NA	0.15 U	NA	1.0 U	1.0 UJ
1,1,2-Trichloroethane	5	5	330	ug/L	1.0 U	NA	NA	1.0 U	NA	0.30 U	NA	1.0 U	1.0 UJ
Trichloroethene	5	5	200	ug/L	1.0 U	NA	NA	1.0 U	NA	0.14 U	NA	1.0 U	1.0 UJ
1,2,3-Trichloropropane	1	1	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	160,000	170,000	32	ug/L	1.0 U	NA	NA	1.0 U	NA	0.32 U	NA	1.0 U	1.0 UJ
1,2,4-Trimethylbenzene	60	63	17	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	60	72	45	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	2	2	13	ug/L	1.0 U	NA	NA	1.0 U	NA	0.15 U	NA	1.0 U	1.0 UJ
o-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	280	280	41	ug/L	2.0 U	NA	NA	2.0 U	NA	0.33 U	NA	1.0 U	1.0 UJ
<b>Semivolatile Organics</b>													
1,1'-Biphenyl	--	--	--	ug/L	NA	NA	10 UJ	0.97 U	NA	10 U	NA	10 U	10 UJ
2,2'-Oxybis(1-Chloropropane)	--	--	--	ug/L	NA	NA	5.0 U	0.97 U	NA	3.1 U	NA	5.0 U	5.0 UJ
2,4,5-Trichlorophenol	180	570	--	ug/L	NA	NA	5.0 U	4.9 U	NA	4.8 UJ	NA	5.0 U	5.0 UJ
2,4,6-Trichlorophenol	40	170	5	ug/L	NA	NA	5.0 U	3.9 U	NA	6.8 U	NA	5.0 U	5.0 UJ
2,4-Dichlorophenol	80	330	11	ug/L	NA	NA	10 U	9.7 U	NA	3.4 U	NA	10 U	10 UJ
2,4-Dimethylphenol	120	380	380	ug/L	NA	NA	5.0 U	4.9 U	NA	3.4 U	NA	5.0 U	5.0 UJ
2,4-Dinitrophenol	12	38	19	ug/L	NA	NA	20 U	19 U	NA	12 UJ	NA	20 U	20 UJ
2,4-Dinitrotoluene	1.1	5.5	--	ug/L	NA	NA	5.0 U	4.9 U	NA	3.2 U	NA	5.0 U	5.0 UJ
2,6-Dinitrotoluene	--	--	--	ug/L	NA	NA	5.0 U	4.9 U	NA	2.3 U	NA	5.0 U	5.0 UJ
2-Chloronaphthalene	470	1,500	--	ug/L	NA	NA	5.0 UJ	4.9 U	NA	3.4 U	NA	5.0 U	5.0 UJ
2-Chlorophenol	32	130	18	ug/L	NA	NA	5.0 U	4.9 U	NA	4.0 U	NA	5.0 U	5.0 UJ
2-Methylnaphthalene	24	76	19	ug/L	NA	NA	5.0 U	4.9 U	NA	2.6 U	NA	5.0 U	5.0 UJ
2-Methylphenol	8,000	33,000	30	ug/L	NA	NA	5.0 U	4.9 U	NA	4.4 U	NA	5.0 U	5.0 UJ
2-Nitroaniline	--	--	--	ug/L	NA	NA	20 U	19 U	NA	2.8 U	NA	20 U	20 UJ
2-Nitrophenol	12	38	--	ug/L	NA	NA	5.0 U	4.9 U	NA	8.4 U	NA	5.0 U	5.0 UJ
3,3'-Dichlorobenzidine	1.6	8.2	0.3	ug/L	NA	NA	R	4.9 U	NA	3.7 U	NA	20 U	20 UJ

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3-Nitroaniline	--	--	--	ug/L	NA	NA	20 U	19 U	NA	2.8 U	NA	20 U	20 UJ
4,6-Dinitro-2-methylphenol	20	20	--	ug/L	NA	NA	20 U	19 U	NA	5.2 U	NA	20 U	20 UJ
4-Bromophenyl-phenylether	--	--	--	ug/L	NA	NA	5.0 U	4.9 U	NA	3.5 U	NA	5.0 U	5.0 UJ
4-Chloro-3-Methylphenol	400	1,700	7.4	ug/L	NA	NA	5.0 U	4.9 U	NA	4.0 U	NA	5.0 U	5.0 UJ
4-Chloroaniline	3	9.4	--	ug/L	NA	NA	10 U	1.9 U	NA	2.4 U	NA	10 U	10 UJ
4-Chlorophenyl-phenylether	--	--	--	ug/L	NA	NA	5.0 U	4.9 U	NA	3.2 U	NA	5.0 U	5.0 UJ
4-Methylphenol	--	--	--	ug/L	NA	NA	5.0 U	4.9 U	NA	5.2 U	NA	5.0 U	5.0 UJ
4-Nitroaniline	--	--	--	ug/L	NA	NA	20 U	19 U	NA	5.2 U	NA	20 U	20 UJ
4-Nitrophenol	--	--	--	ug/L	NA	NA	20 U	19 U	NA	7.6 U	NA	20 U	20 UJ
Acenaphthene	360	1,100	38	ug/L	NA	NA	5.0 U	4.9 U	NA	3.2 U	NA	5.0 U	5.0 UJ
Acenaphthylene	360	1,100	--	ug/L	NA	NA	5.0 U	4.9 U	NA	2.8 U	NA	5.0 U	5.0 UJ
Acetophenone	3,200	13,000	--	ug/L	NA	NA	10 U	0.97 U	NA	10 U	NA	10 U	10 UJ
Anthracene	43	43	--	ug/L	NA	NA	5.0 U	4.9 U	NA	2.7 U	NA	5.0 U	5.0 UJ
Atrazine	3	3	7.3	ug/L	NA	NA	5.0 U	0.97 U	NA	10 U	NA	5.0 U	5.0 UJ
Benzaldehyde	--	--	--	ug/L	NA	NA	10 U	0.97 U	NA	11 U	NA	10 U	10 UJ
Benzo(a)anthracene	2.3	9.4	--	ug/L	NA	NA	5.0 U	0.97 U	NA	2.8 U	NA	5.0 U	5.0 UJ
Benzo(a)pyrene	0.2	0.2	--	ug/L	NA	NA	5.0 U	0.97 U	NA	2.9 U	NA	5.0 U	5.0 UJ
Benzo(b)fluoranthene	1.5	1.5	--	ug/L	NA	NA	5.0 U	0.97 U	NA	3.8 U	NA	5.0 U	5.0 UJ
Benzo(g,h,i)perylene	1	1	--	ug/L	NA	NA	5.0 U	0.97 U	NA	3.4 U	NA	5.0 U	5.0 UJ
Benzo(k)fluoranthene	1	1	--	ug/L	NA	NA	5.0 U	0.97 U	NA	3.4 U	NA	5.0 U	5.0 UJ
bis(2-Chloroethoxy)methane	--	--	--	ug/L	NA	NA	5.0 U	4.9 U	NA	3.5 U	NA	5.0 U	5.0 UJ
bis(2-Chloroethyl)ether	1	3.3	1	ug/L	NA	NA	5.0 U	0.97 U	NA	R	NA	5.0 U	5.0 UJ
bis(2-Ethylhexyl)phthalate	6	6	14	ug/L	NA	NA	5.0 U	0.70 JB	NA	11 U	NA	5.0 U	5.0 UJ
Butylbenzylphthalate	80	330	67	ug/L	NA	NA	5.0 U	4.9 U	NA	3.5 U	NA	5.0 U	5.0 UJ
Caprolactam	2,000	9,400	--	ug/L	NA	NA	10 UJ	4.9 U	NA	10 UJ	NA	10 U	10 UJ
Carbazole	10	38	10	ug/L	NA	NA	10 U	9.7 U	NA	3.3 U	NA	10 U	10 UJ
Chrysene	2	2	--	ug/L	NA	NA	5.0 U	0.97 U	NA	3.0 U	NA	5.0 U	5.0 UJ
Dibenzo(a,h)anthracene	2	2.5	--	ug/L	NA	NA	5.0 U	1.9 U	NA	3.2 U	NA	5.0 U	5.0 UJ
Dibenzofuran	5.9	19	4	ug/L	NA	NA	5.0 U	3.9 U	NA	4.4 U	NA	5.0 U	5.0 UJ
Diethylphthalate	4,700	15,000	110	ug/L	NA	NA	5.0 U	4.9 U	NA	2.6 U	NA	5.0 U	5.0 UJ
Dimethylphthalate	590	1,900	--	ug/L	NA	NA	5.0 U	4.9 U	NA	3.0 U	NA	5.0 U	5.0 UJ
Di-n-Butylphthalate	27	110	9.7	ug/L	NA	NA	5.0 U	0.73 J	NA	2.7 U	NA	5.0 U	5.0 UJ
Di-n-Octylphthalate	22	22	--	ug/L	NA	NA	5.0 U	4.9 U	NA	4.4 U	NA	5.0 U	5.0 UJ
Fluoranthene	240	260	1.6	ug/L	NA	NA	5.0 U	0.97 U	NA	3.2 U	NA	5.0 U	5.0 UJ
Fluorene	240	760	12	ug/L	NA	NA	5.0 U	4.9 U	NA	4.0 U	NA	5.0 U	5.0 UJ
Hexachlorobenzene	1	1	0.2	ug/L	NA	NA	5.0 U	0.19 U	NA	3.0 U	NA	5.0 U	5.0 UJ
Hexachlorocyclopentadiene	50	50	--	ug/L	NA	NA	5.0 U	4.9 U	NA	R	NA	5.0 U	5.0 UJ
Hexachloroethane	5	13	6.7	ug/L	NA	NA	5.0 U	4.9 U	NA	3.0 U	NA	5.0 U	5.0 UJ
Indeno(1,2,3-cd)pyrene	2	2	--	ug/L	NA	NA	5.0 U	1.9 U	NA	2.5 U	NA	5.0 U	5.0 UJ
Isophorone	760	3,800	1,300	ug/L	NA	NA	5.0 U	4.9 U	NA	2.5 U	NA	5.0 U	5.0 UJ
Nitrobenzene	12	38	180	ug/L	NA	NA	5.0 U	2.9 U	NA	3.2 U	NA	5.0 U	5.0 UJ
N-Nitroso-di-n-propylamine	5	5	--	ug/L	NA	NA	5.0 U	4.9 U	NA	2.7 U	NA	5.0 U	5.0 UJ
N-Nitrosodiphenylamine	150	750	--	ug/L	NA	NA	5.0 U	4.9 U	NA	5.6 U	NA	5.0 U	5.0 UJ
Pentachlorophenol	1	1	--	ug/L	NA	NA	5.0 U	4.9 U	NA	9.6 U	NA	5.0 U	5.0 UJ
Phenanthrene	180	570	2	ug/L	NA	NA	5.0 U	1.9 U	NA	3.3 U	NA	5.0 U	5.0 UJ
Phenol	1,200	5,700	450	ug/L	NA	NA	5.0 U	4.9 U	NA	10 U	NA	5.0 U	5.0 UJ
Pyrene	140	140	--	ug/L	NA	NA	5.0 U	4.9 U	NA	4.4 U	NA	5.0 U	5.0 UJ
Hexachloro-1,3-Butadiene	5.9	19	0.053	ug/L	NA	NA	5.0 U	0.97 U	NA	R	NA	5.0 U	5.0 UJ
Naphthalene	590	1,900	11	ug/L	NA	NA	5.0 U	4.9 U	NA	R	NA	5.0 U	5.0 UJ
<b>Inorganics</b>													
Antimony	6	6	130	ug/L	25.0 U	NA	NA	0.55 J	NA	2.2 U	NA	25.0 U	25.0 UJ
Arsenic	10	10	10	ug/L	1.6 J	NA	NA	12 B	NA	4.7 J	NA	6.1 J	10.0 UJ
Barium	2,000	2,000	670	ug/L	75.8 J	NA	NA	170 B	NA	188	NA	166	139 J
Beryllium	4	4	6.7	ug/L	1.0 U	NA	NA	0.58 JB	NA	0.54 U	NA	1.0 U	1.0 UJ

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Cadmium	5	5	2.5	ug/L	5.0 U	NA	NA	0.44 J	NA	0.28 U	NA	5.0 U	5.0 UJ
Calcium	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	100	11	ug/L	10.0 U	NA	NA	0.71 JB	NA	1.4 U	NA	10.0 U	10.0 UJ
Cobalt	20	20	100	ug/L	20.0 U	NA	NA	1.5	NA	1.3 U	NA	1.1 J	20.0 UJ
Copper	30	95	13	ug/L	5.0 U	NA	NA	2.2 B	NA	4.2 U	NA	5.0 U	5.0 UJ
Cyanide (total)	--	--	--	ug/L	10 U	NA	NA	NA	NA	3.4 J	NA	10.0 U	10.0 UJ
Iron	300	300	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1	1	14	ug/L	3.0 U	NA	NA	0.94 JB	NA	2.5 U	NA	3.0 U	3.0 UJ
Magnesium	330,000	1,000,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	50	1,300	ug/L	1,230 J	NA	NA	1,300 B	NA	427 J	NA	429 J	494 J
Mercury	2	2	0.0013	ug/L	0.20 U	NA	NA	0.20 U	NA	0.069 U	NA	0.20 U	0.20 UJ
Nickel	36	110	73	ug/L	20.0 U	NA	NA	3.1 B	NA	2.9 J	NA	20.0 U	20.0 UJ
Selenium	50	50	5	ug/L	5.0 U	NA	NA	1.3 J	NA	4.5 U	NA	5.0 U	5.0 UJ
Silver	5.9	19	0.2	ug/L	5.0 U	NA	NA	0.058 JB	NA	1.5 U	NA	5.0 U	5.0 UJ
Thallium	2	2	3.7	ug/L	1.0 U	NA	NA	1.0 U	NA	0.018 U	NA	1.0 U	1.0 UJ
Vanadium	4	4	27	ug/L	10.0 U	NA	NA	1.1 JB	NA	0.82 U	NA	10.0 U	10.0 UJ
Zinc	1,800	5,000	170	ug/L	20.0 U	NA	NA	6.8 JB	NA	12.0 U	NA	20.0 U	20.0 UJ
<b>Inorganics-Filtered</b>													
Antimony (dissolved)	6	6	130	ug/L	NA	NA	NA	0.31 J	NA	2.2 U	NA	NA	NA
Arsenic (dissolved)	10	10	10	ug/L	NA	NA	NA	12 B	NA	4.3 J	NA	NA	NA
Barium (dissolved)	2,000	2,000	670	ug/L	NA	NA	NA	180 B	NA	191	NA	NA	NA
Beryllium (dissolved)	4	4	6.7	ug/L	NA	NA	NA	0.31 JB	NA	0.54 U	NA	NA	NA
Cadmium (dissolved)	5	5	2.5	ug/L	NA	NA	NA	0.026 J	NA	0.28 U	NA	NA	NA
Chromium (dissolved)	--	--	11	ug/L	NA	NA	NA	0.46 JB	NA	1.4 U	NA	NA	NA
Cobalt (dissolved)	20	20	100	ug/L	NA	NA	NA	1.1	NA	1.3 U	NA	NA	NA
Copper (dissolved)	30	95	13	ug/L	NA	NA	NA	1.7 JB	NA	4.2 U	NA	NA	NA
Iron (dissolved)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (dissolved)	1	1	14	ug/L	NA	NA	NA	0.44 JB	NA	2.5 U	NA	NA	NA
Manganese (dissolved)	50	50	1,300	ug/L	NA	NA	NA	1,300 B	NA	433 J	NA	NA	NA
Mercury (dissolved)	--	--	0.0013	ug/L	NA	NA	NA	0.20 U	NA	0.069 U	NA	NA	NA
Nickel (dissolved)	36	110	73	ug/L	NA	NA	NA	2.8 B	NA	3.6 J	NA	NA	NA
Selenium (dissolved)	50	50	5	ug/L	NA	NA	NA	0.61 J	NA	4.5 U	NA	NA	NA
Silver (dissolved)	5.9	19	0.2	ug/L	NA	NA	NA	0.0090 JB	NA	1.5 U	NA	NA	NA
Thallium (dissolved)	2	2	3.7	ug/L	NA	NA	NA	1.0 U	NA	0.018 U	NA	NA	NA
Vanadium (dissolved)	4	4	27	ug/L	NA	NA	NA	0.75 JB	NA	0.82 U	NA	NA	NA
Zinc (dissolved)	1,800	5,000	170	ug/L	NA	NA	NA	4.6 JB	NA	12.0 U	NA	NA	NA
<b>Miscellaneous</b>													
Alkalinity, total (as CaCO3)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness	--	--	--	ug/L	NA	NA	NA	530,000	NA	NA	NA	NA	NA
pH (water)	--	--	--	none	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	500,000	500,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Field</b>													
Conductivity, field	--	--	--	mS/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity, field	--	--	--	umhos/cm	NA	1.49	NA	NA	NA	NA	NA	NA	NA
Dissolved oxygen (DO), field	--	--	--	ug/L	NA	250	NA	NA	NA	NA	NA	NA	NA
Oxidation reduction potential (ORP), field	--	--	--	millivolts	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, ambient	--	--	--	deg f	NA	60	NA	NA	NA	NA	NA	NA	NA
Temperature, field	--	--	--	deg c	NA	13.94	NA	NA	NA	NA	NA	NA	NA
Turbidity (field)	--	--	--	NTU	NA	0.69	NA	NA	NA	NA	NA	NA	NA
<b>Dioxins/Furans</b>													
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	--	pg/L	4.6 U	NA	NA	NA	1.6 UJ	NA	50 U	NA	6.5 UJ
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	--	--	--	pg/L	4.9 U	NA	NA	NA	1.9 U	NA	50 U	NA	7.0 UJ

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**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW1-02 11/06/08 MWW1-02-GW-110608	MWW1-02 11/06/08 MWW1-02-GW-110608-FP	MWW1-02 11/06/08 MWW1-02-GW-110608R2	MWW1-02 08/21/13 MWW1-02_08212013	MWW1-03 01/17/02 MWW1-03-GW-011702	MWW1-03 01/17/02 MWW1-03-GW-N	MWW1-03 11/08/02 MWW103GW	MWW1-03 11/08/02 MWW103GW110802	MWW1-03 05/19/03 MWW103W(1-11)
1,2,3,4,6,7,8-HpCDD	--	--	--	pg/L	3.6 U	NA	NA	NA	1.1 UJ	NA	25 U	NA	4.0 UJ
1,2,3,4,6,7,8-HpCDF	--	--	--	pg/L	2.6 U	NA	NA	NA	0.7 U	NA	25 U	NA	4.5 UJ
1,2,3,4,7,8,9-HpCDF	--	--	--	pg/L	3.0 U	NA	NA	NA	0.9 U	NA	25 U	NA	3.3 UJ
1,2,3,4,7,8-HxCDD	--	--	--	pg/L	4.4 U	NA	NA	NA	0.8 U	NA	25 U	NA	4.2 UJ
1,2,3,4,7,8-HxCDF	--	--	--	pg/L	3.1 U	NA	NA	NA	0.5 UJ	NA	25 U	NA	4.6 UJ
1,2,3,6,7,8-HxCDD	--	--	--	pg/L	3.9 U	NA	NA	NA	0.9 U	NA	25 U	NA	4.4 UJ
1,2,3,6,7,8-HxCDF	--	--	--	pg/L	2.7 U	NA	NA	NA	0.5 U	NA	25 U	NA	4.5 UJ
1,2,3,7,8,9-HxCDD	--	--	--	pg/L	3.9 U	NA	NA	NA	0.8 U	NA	25 U	NA	4.0 UJ
1,2,3,7,8,9-HxCDF	--	--	--	pg/L	3.1 U	NA	NA	NA	0.7 U	NA	25 U	NA	5.1 UJ
1,2,3,7,8-PeCDD	--	--	--	pg/L	4.4 U	NA	NA	NA	1.3 U	NA	10 U	NA	3.8 UJ
1,2,3,7,8-PeCDF	--	--	--	pg/L	3.3 U	NA	NA	NA	1 U	NA	10 U	NA	2.7 UJ
2,3,4,6,7,8-HxCDF	--	--	--	pg/L	3.0 U	NA	NA	NA	0.6 U	NA	25 U	NA	4.7 UJ
2,3,4,7,8-PeCDF	--	--	--	pg/L	3.4 U	NA	NA	NA	0.9 U	NA	10 U	NA	2.7 UJ
2,3,7,8-TCDD	<b>30</b>	<b>30</b>	<b>10</b>	pg/L	3.4 U	NA	NA	NA	1.1 U	NA	10 U	NA	2.4 UJ
2,3,7,8-TCDF	--	--	--	pg/L	2.0 U	NA	NA	NA	0.8 U	NA	10 U	NA	1.7 UJ
Total heptachlorodibenzofuran (HpCDF)	--	--	--	pg/L	3.0 U	NA	NA	NA	0.8 U	NA	NA	NA	NA
Total heptachlorodibenzo-p-dioxin (HpCDD)	--	--	--	pg/L	3.6 U	NA	NA	NA	3.8 J	NA	NA	NA	NA
Total hexachlorodibenzofuran (HxCDF)	--	--	--	pg/L	3.1 U	NA	NA	NA	3.3	NA	NA	NA	NA
Total hexachlorodibenzo-p-dioxin (HxCDD)	--	--	--	pg/L	4.4 U	NA	NA	NA	0.8 U	NA	NA	NA	NA
Total pentachlorodibenzofuran (PeCDF)	--	--	--	pg/L	3.4 U	NA	NA	NA	0.9 U	NA	NA	NA	NA
Total pentachlorodibenzo-p-dioxin (PeCDD)	--	--	--	pg/L	4.4 U	NA	NA	NA	1.8 J	NA	NA	NA	NA
Total TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzofuran (TCDF)	--	--	--	pg/L	2.0 U	NA	NA	NA	0.8 U	NA	NA	NA	NA
Total tetrachlorodibenzo-p-dioxin (TCDD)	--	--	--	pg/L	3.4 U	NA	NA	NA	1.1 U	NA	NA	NA	NA

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**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW1-03 12/10/03 MWW103GW(1-11)	MWW1-03 12/10/03 MWW103GW(1-11)R2	MWW1-03 05/03/04 MWW103GW (050304)	MWW1-03 05/17/04 MWW103GW051704	MWW1-03 10/26/04 MWW1-03-GW-102604	MWW1-03 10/26/04 MWW1-03-GW-102604DL	MWW1-03 05/11/05 MWW1-03-GW-051105	MWW1-03 05/11/05 MWW1-03-GW-051105R2	MWW1-03 09/20/05 MWW1-03-GW-092005
<b>PCBs</b>													
Aroclor-1016	0.5	0.5	0.2	ug/L	0.20 U	NA	0.20 U	NA	0.20 U	NA	0.20 U [0.2 U]	NA	0.20 U
Aroclor-1221	0.5	0.5	0.2	ug/L	0.20 U	NA	0.20 U	NA	0.20 U	NA	0.20 U [0.2 U]	NA	0.20 U
Aroclor-1232	0.5	0.5	0.2	ug/L	0.40 U	NA	0.40 U	NA	0.40 U	NA	0.40 U [0.4 U]	NA	0.40 U
Aroclor-1242	0.5	0.5	0.2	ug/L	0.20 U	NA	0.20 U	NA	0.20 U	NA	0.20 U [0.2 U]	NA	0.20 U
Aroclor-1248	0.5	0.5	0.2	ug/L	0.20 U	NA	0.20 U	NA	0.20 U	NA	0.20 U [0.2 U]	NA	0.20 U
Aroclor-1254	0.5	0.5	0.2	ug/L	0.20 U	NA	0.20 U	NA	0.20 U	NA	0.20 U [0.2 U]	NA	0.20 U
Aroclor-1260	0.5	0.5	0.2	ug/L	0.20 U	NA	0.20 U	NA	0.20 U	NA	0.064 J [0.2 J]	NA	0.86
<b>PCBs-Filtered</b>													
Aroclor-1016 (PCB-1016) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Volatile Organics</b>													
1,2,3-Trimethylbenzene	60	130	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	24	76	19	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	2	6.8	2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	13	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	3,600	17,000	11,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	5,300	17,000	1,700	ug/L	10 U	NA	10 U	NA	10 UJ	NA	10 U [10 U]	NA	NA
Benzene	5	5	200	ug/L	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
Bromobenzene	47	150	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	80	80	--	ug/L	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
Bromoform	80	80	--	ug/L	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
Bromomethane	120	380	5	ug/L	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 UJ [1 U]	NA	NA
2-Butanone	2,400	11,000	2,200	ug/L	10 UJ	NA	10 U	NA	10 UJ	NA	10 U [10 U]	NA	NA
n-Butylbenzene	270	870	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	440	1,800	--	ug/L	1.0 U	NA	1.0 U	NA	1.0 U	NA	0.59 J [1 U]	NA	NA
Carbon Tetrachloride	5	5	38	ug/L	1.0 U	NA	1.0 U	NA	1.0 UJ	NA	1.0 U [1 U]	NA	NA
CFC-11	1,800	5,700	--	ug/L	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
CFC-12	30	94	--	ug/L	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U [2 U]	NA	NA
Chlorobenzene	100	100	25	ug/L	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
Chlorobromomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorodibromomethane	80	80	--	ug/L	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
Chloroethane	240	760	1,100	ug/L	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
Chloroform	80	80	350	ug/L	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
Chloromethane	220	1,100	--	ug/L	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
Cyclohexane	--	--	--	ug/L	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
Cymene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.2	0.2	--	ug/L	2.0 U	NA	2.0 U	NA	2.0 UJ	NA	2.0 U [2 U]	NA	NA
1,2-Dibromoethane	0.05	0.05	5.7	ug/L	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
Dibromomethane	18	57	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	600	13	ug/L	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
1,3-Dichlorobenzene	12	38	28	ug/L	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
1,4-Dichlorobenzene	75	75	17	ug/L	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U [1 U]	NA	NA

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1,1-Dichloroethane	1,200	3,800	740	ug/L	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
1,2-Dichloroethane	5	5	360	ug/L	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
1,1-Dichloroethene	7	7	130	ug/L	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
cis-1,2-Dichloroethene	70	70	620	ug/L	0.50 U	NA	0.50 U	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
trans-1,2-Dichloroethene	100	100	1,500	ug/L	0.50 U	NA	0.50 U	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
Dichloromethane	5	5	1,500	ug/L	1.0 UJ	NA	1.0 U	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
1,2-Dichloropropane	5	5	230	ug/L	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
cis-1,3-Dichloropropene	--	--	--	ug/L	1.0 U	NA	1.0 U	NA	1.0 UJ	NA	1.0 U [1 U]	NA	NA
trans-1,3-Dichloropropene	--	--	--	ug/L	1.0 U	NA	R	NA	1.0 UJ	NA	1.0 U [1 U]	NA	NA
Diethyl Ether	5	5	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	7.2	37	2,800	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	66	74	18	ug/L	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
Isopropylbenzene	590	1,900	28	ug/L	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
Methyl acetate	--	--	--	ug/L	10 U	NA	10 U	NA	10 U	NA	10 U [10 U]	NA	NA
Methyl N-Butyl Ketone	50	94	--	ug/L	10 U	NA	10 U	NA	10 UJ	NA	10 U [10 U]	NA	NA
Methylcyclohexane	--	--	--	ug/L	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
4-Methyl-2-pentanone	300	940	--	ug/L	10 U	NA	10 U	NA	10 U	NA	10 U [10 U]	NA	NA
Methyl tert-butyl ether	40	40	7,100	ug/L	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U [5 U]	NA	NA
Naphthalene	590	1,900	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	100	80	ug/L	R	NA	1.0 U	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
1,1,1,2-Tetrachloroethane	28	140	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1,2,2-Tetrachloroethane	3.6	18	78	ug/L	1.0 U	NA	R	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
Tetrachloroethene	5	5	60	ug/L	1.0 U	NA	R	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
Toluene	470	790	270	ug/L	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
1,2,3-Trichlorobenzene	16	51	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	70	99	ug/L	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
1,1,1-Trichloroethane	200	200	89	ug/L	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
1,1,2-Trichloroethane	5	5	330	ug/L	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
Trichloroethene	5	5	200	ug/L	1.0 U	NA	1.0 UJ	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
1,2,3-Trichloropropane	1	1	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	160,000	170,000	32	ug/L	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
1,2,4-Trimethylbenzene	60	63	17	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	60	72	45	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	2	2	13	ug/L	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U [1 U]	NA	NA
o-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	280	280	41	ug/L	1.0 U	NA	1.0 U	NA	2.0 U	NA	2.0 U [2 U]	NA	NA
<b>Semivolatile Organics</b>													
1,1'-Biphenyl	--	--	--	ug/L	NA	10 U	10 U	NA	NA	40 U	10 U [10 U]	NA	NA
2,2'-Oxybis(1-Chloropropane)	--	--	--	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
2,4,5-Trichlorophenol	180	570	--	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
2,4,6-Trichlorophenol	40	170	5	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
2,4-Dichlorophenol	80	330	11	ug/L	NA	10 U	10 U	NA	NA	40 U	10 U [10 U]	NA	NA
2,4-Dimethylphenol	120	380	380	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
2,4-Dinitrophenol	12	38	19	ug/L	NA	20 U	20 U	NA	NA	80 U	20 U [20 U]	NA	NA
2,4-Dinitrotoluene	1.1	5.5	--	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
2,6-Dinitrotoluene	--	--	--	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
2-Chloronaphthalene	470	1,500	--	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
2-Chlorophenol	32	130	18	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
2-Methylnaphthalene	24	76	19	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
2-Methylphenol	8,000	33,000	30	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
2-Nitroaniline	--	--	--	ug/L	NA	20 U	20 U	NA	NA	80 U	20 U [20 U]	NA	NA
2-Nitrophenol	12	38	--	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
3,3'-Dichlorobenzidine	1.6	8.2	0.3	ug/L	NA	20 U	20 U	NA	NA	80 U	20 U [20 U]	NA	NA

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**Pontiac North Campus**  
**Pontiac, MI**

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3-Nitroaniline	--	--	--	ug/L	NA	20 U	20 U	NA	NA	80 U	20 U [20 U]	NA	NA
4,6-Dinitro-2-methylphenol	20	20	--	ug/L	NA	20 U	20 U	NA	NA	80 U	20 U [20 U]	NA	NA
4-Bromophenyl-phenylether	--	--	--	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
4-Chloro-3-Methylphenol	400	1,700	7.4	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
4-Chloroaniline	3	9.4	--	ug/L	NA	10 U	10 U	NA	NA	40 U	10 U [10 U]	NA	NA
4-Chlorophenyl-phenylether	--	--	--	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
4-Methylphenol	--	--	--	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
4-Nitroaniline	--	--	--	ug/L	NA	20 U	20 U	NA	NA	80 U	20 U [20 U]	NA	NA
4-Nitrophenol	--	--	--	ug/L	NA	20 U	20 U	NA	NA	80 U	20 U [20 U]	NA	NA
Acenaphthene	360	1,100	38	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
Acenaphthylene	360	1,100	--	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
Acetophenone	3,200	13,000	--	ug/L	NA	10 U	10 U	NA	NA	40 U	10 U [10 U]	NA	NA
Anthracene	43	43	--	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
Atrazine	3	3	7.3	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
Benzaldehyde	--	--	--	ug/L	NA	10 U	10 U	NA	NA	40 U	10 U [10 U]	NA	NA
Benzo(a)anthracene	2.3	9.4	--	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
Benzo(a)pyrene	0.2	0.2	--	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
Benzo(b)fluoranthene	1.5	1.5	--	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
Benzo(g,h,i)perylene	1	1	--	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
Benzo(k)fluoranthene	1	1	--	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
bis(2-Chloroethoxy)methane	--	--	--	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
bis(2-Chloroethyl)ether	1	3.3	1	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
bis(2-Ethylhexyl)phthalate	6	6	14	ug/L	NA	1.4 J	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
Butylbenzylphthalate	80	330	67	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
Caprolactam	2,000	9,400	--	ug/L	NA	10 U	10 U	NA	NA	40 U	10 U [10 U]	NA	NA
Carbazole	10	38	10	ug/L	NA	10 U	10 U	NA	NA	40 U	10 U [10 U]	NA	NA
Chrysene	2	2	--	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
Dibenzo(a,h)anthracene	2	2.5	--	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
Dibenzofuran	5.9	19	4	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
Diethylphthalate	4,700	15,000	110	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
Dimethylphthalate	590	1,900	--	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
Di-n-Butylphthalate	27	110	9.7	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	0.45 J [0.53 J]	NA	NA
Di-n-Octylphthalate	22	22	--	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
Fluoranthene	240	260	1.6	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
Fluorene	240	760	12	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
Hexachlorobenzene	1	1	0.2	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
Hexachlorocyclopentadiene	50	50	--	ug/L	NA	R	R	NA	NA	20 U	5.0 UJ [5 U]	NA	NA
Hexachloroethane	5	13	6.7	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
Indeno(1,2,3-cd)pyrene	2	2	--	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
Isophorone	760	3,800	1,300	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
Nitrobenzene	12	38	180	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
N-Nitroso-di-n-propylamine	5	5	--	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
N-Nitrosodiphenylamine	150	750	--	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
Pentachlorophenol	1	1	--	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
Phenanthrene	180	570	2	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
Phenol	1,200	5,700	450	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
Pyrene	140	140	--	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
Hexachloro-1,3-Butadiene	5.9	19	0.053	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
Naphthalene	590	1,900	11	ug/L	NA	5.0 U	5.0 U	NA	NA	20 U	5.0 U [5 U]	NA	NA
<b>Inorganics</b>													
Antimony	6	6	130	ug/L	25.0 U	NA	25.0 U	25.0 U	25.0 U	NA	25.0 U [25 U]	NA	NA
Arsenic	10	10	10	ug/L	10.0 U	NA	10.0 U	10.0 U	10.0 U	NA	3.2 J [3.2 J]	NA	NA
Barium	2,000	2,000	670	ug/L	245	NA	130	161	105	NA	130 [127]	NA	NA
Beryllium	4	4	6.7	ug/L	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U [1 U]	NA	NA

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Cadmium	5	5	2.5	ug/L	0.65 J	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U [5 U]	NA	NA
Calcium	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	100	11	ug/L	10.0 U	NA	10.0 U	7.2 J	10.0 U	NA	10.0 U [10 U]	NA	NA
Cobalt	20	20	100	ug/L	20.0 U	NA	20.0 U	2.1 J	20.0 U	NA	20.0 U [20 U]	NA	NA
Copper	30	95	13	ug/L	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U [5 U]	NA	NA
Cyanide (total)	--	--	--	ug/L	10.0 U	NA	10.0 U	NA	10.0 U	NA	10 U [10 U]	NA	NA
Iron	300	300	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1	1	14	ug/L	3.0 U	NA	3.0 U	3.0 U	3.0 U	NA	3.0 U [3 U]	NA	NA
Magnesium	330,000	1,000,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	50	1,300	ug/L	1,320	NA	873	740	568	NA	725 [717]	NA	NA
Mercury	2	2	0.0013	ug/L	0.20 U	NA	0.20 U	0.20 U	0.20 U	NA	0.20 U [0.2 U]	NA	NA
Nickel	36	110	73	ug/L	5.3 J	NA	20.0 U	8.5 J	20.0 U	NA	2.8 J [3 J]	NA	NA
Selenium	50	50	5	ug/L	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U [5 U]	NA	NA
Silver	5.9	19	0.2	ug/L	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U [5 U]	NA	NA
Thallium	2	2	3.7	ug/L	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U [1 U]	NA	NA
Vanadium	4	4	27	ug/L	10.0 U	NA	10.0 U	1.4 J	10.0 U	NA	10.0 U [10 U]	NA	NA
Zinc	1,800	5,000	170	ug/L	20.0 U	NA	20.0 U	25.9	20.0 U	NA	20.0 U [20 U]	NA	NA
<b>Inorganics-Filtered</b>													
Antimony (dissolved)	6	6	130	ug/L	NA	NA	NA	25.0 U	NA	NA	NA	NA	NA
Arsenic (dissolved)	10	10	10	ug/L	NA	NA	NA	10.0 U	NA	NA	NA	NA	NA
Barium (dissolved)	2,000	2,000	670	ug/L	NA	NA	NA	153	NA	NA	NA	NA	NA
Beryllium (dissolved)	4	4	6.7	ug/L	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA
Cadmium (dissolved)	5	5	2.5	ug/L	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA
Chromium (dissolved)	--	--	11	ug/L	NA	NA	NA	4.5 J	NA	NA	NA	NA	NA
Cobalt (dissolved)	20	20	100	ug/L	NA	NA	NA	2.3 J	NA	NA	NA	NA	NA
Copper (dissolved)	30	95	13	ug/L	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA
Iron (dissolved)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (dissolved)	1	1	14	ug/L	NA	NA	NA	3.0 U	NA	NA	NA	NA	NA
Manganese (dissolved)	50	50	1,300	ug/L	NA	NA	NA	739	NA	NA	NA	NA	NA
Mercury (dissolved)	--	--	0.0013	ug/L	NA	NA	NA	0.20 U	NA	NA	NA	NA	NA
Nickel (dissolved)	36	110	73	ug/L	NA	NA	NA	5.6 J	NA	NA	NA	NA	NA
Selenium (dissolved)	50	50	5	ug/L	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA
Silver (dissolved)	5.9	19	0.2	ug/L	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA
Thallium (dissolved)	2	2	3.7	ug/L	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA
Vanadium (dissolved)	4	4	27	ug/L	NA	NA	NA	1.6 J	NA	NA	NA	NA	NA
Zinc (dissolved)	1,800	5,000	170	ug/L	NA	NA	NA	20.0 U	NA	NA	NA	NA	NA
<b>Miscellaneous</b>													
Alkalinity, total (as CaCO3)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	--	--	--	none	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	500,000	500,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Field</b>													
Conductivity, field	--	--	--	mS/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity, field	--	--	--	umhos/cm	2.69	NA	NA	3.96	NA	NA	NA	NA	NA
Dissolved oxygen (DO), field	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation reduction potential (ORP), field	--	--	--	millivolts	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, ambient	--	--	--	deg f	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, field	--	--	--	deg c	8.61	NA	NA	19.7	NA	NA	NA	NA	NA
Turbidity (field)	--	--	--	NTU	1.79	NA	NA	4	NA	NA	NA	NA	NA
<b>Dioxins/Furans</b>													
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	--	pg/L	10 U	NA	3.8 U	NA	2.4 U	NA	NA	2.2 U [1.8 U]	NA
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	--	--	--	pg/L	8.3 U	NA	7.2 U	NA	4.3 U	NA	NA	10 U [7.1 U]	NA

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1,2,3,4,6,7,8-HpCDD	--	--	--	pg/L	4.6 U	NA	1.8 U	NA	0.61 U	NA	NA	1.2 U [1.2 U]	NA
1,2,3,4,6,7,8-HpCDF	--	--	--	pg/L	2.9 U	NA	0.67 U	NA	2.1 U	NA	NA	0.98 U [1.3 U]	NA
1,2,3,4,7,8,9-HpCDF	--	--	--	pg/L	3.3 U	NA	0.82 U	NA	0.55 U	NA	NA	1.1 U [0.93 U]	NA
1,2,3,4,7,8-HxCDD	--	--	--	pg/L	5.6 U	NA	1.4 U	NA	1.4 U	NA	NA	1.8 U [1.5 U]	NA
1,2,3,4,7,8-HxCDF	--	--	--	pg/L	5.0 U	NA	1.1 U	NA	2.4 U	NA	NA	2.0 U [1.6 U]	NA
1,2,3,6,7,8-HxCDD	--	--	--	pg/L	5.3 U	NA	1.2 U	NA	1.1 U	NA	NA	1.6 U [1.4 U]	NA
1,2,3,6,7,8-HxCDF	--	--	--	pg/L	4.6 U	NA	0.93 U	NA	0.75 U	NA	NA	2.0 U [1.6 U]	NA
1,2,3,7,8,9-HxCDD	--	--	--	pg/L	5.2 U	NA	1.2 U	NA	1.1 U	NA	NA	1.7 U [1.4 U]	NA
1,2,3,7,8,9-HxCDF	--	--	--	pg/L	5.3 U	NA	1.2 U	NA	0.61 U	NA	NA	2.4 U [1.9 U]	NA
1,2,3,7,8-PeCDD	--	--	--	pg/L	5.4 U	NA	2.7 U	NA	1.7 U	NA	NA	2.3 U [2.1 U]	NA
1,2,3,7,8-PeCDF	--	--	--	pg/L	3.9 U	NA	1.1 U	NA	1.1 U	NA	NA	1.3 U [1.4 U]	NA
2,3,4,6,7,8-HxCDF	--	--	--	pg/L	4.8 U	NA	1.1 U	NA	0.54 U	NA	NA	2.1 U [1.7 U]	NA
2,3,4,7,8-PeCDF	--	--	--	pg/L	3.8 U	NA	1.1 U	NA	1.1 U	NA	NA	1.3 U [1.4 U]	NA
2,3,7,8-TCDD	<b>30</b>	<b>30</b>	<b>10</b>	pg/L	3.3 U	NA	0.82 U	NA	0.83 U	NA	NA	0.98 U [0.79 U]	NA
2,3,7,8-TCDF	--	--	--	pg/L	2.3 U	NA	0.98 U	NA	2.7 U	NA	NA	1.2 U [1 U]	NA
Total heptachlorodibenzofuran (HpCDF)	--	--	--	pg/L	NA	NA	NA	NA	2.1 U	NA	NA	1.1 U [1.3 U]	NA
Total heptachlorodibenzo-p-dioxin (HpCDD)	--	--	--	pg/L	NA	NA	NA	NA	0.73 U	NA	NA	2.0 U [1.4 U]	NA
Total hexachlorodibenzofuran (HxCDF)	--	--	--	pg/L	NA	NA	NA	NA	2.4 U	NA	NA	2.4 U [1.9 U]	NA
Total hexachlorodibenzo-p-dioxin (HxCDD)	--	--	--	pg/L	NA	NA	NA	NA	1.4 U	NA	NA	1.8 U [1.5 U]	NA
Total pentachlorodibenzofuran (PeCDF)	--	--	--	pg/L	NA	NA	NA	NA	1.8 U	NA	NA	1.5 U [1.4 U]	NA
Total pentachlorodibenzo-p-dioxin (PeCDD)	--	--	--	pg/L	NA	NA	NA	NA	1.7 U	NA	NA	2.3 U [2.1 U]	NA
Total TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzofuran (TCDF)	--	--	--	pg/L	NA	NA	NA	NA	2.7 U	NA	NA	1.2 U [1 U]	NA
Total tetrachlorodibenzo-p-dioxin (TCDD)	--	--	--	pg/L	NA	NA	NA	NA	0.83 U	NA	NA	0.98 U [0.79 U]	NA

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**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW1-03 11/02/05 MWW1-03-GW-110205FD	MWW1-03 05/17/06 MWW1-03-GW-051706TB	MWW1-03 08/15/06 MWW1-03-WG-081506	MWW1-03 08/15/06 MWW1-03-WG-081506(DISS)	MWW1-03 08/15/06 MWW1-03-WG-081506-FP	MWW1-03 11/13/06 MWW1-03-WG-111306	MWW1-03 11/13/06 MWW1-03-WG-111306DL	MWW1-03 05/04/07 MWW1-03-GW-050407	MWW1-03 05/04/07 MWW1-03-GW-050407DL
<b>PCBs</b>													
Aroclor-1016	0.5	0.5	0.2	ug/L	0.20 U	0.20 U	NA	NA	NA	0.20 U [0.2 U]	NA	0.20 U [0.2 U]	NA
Aroclor-1221	0.5	0.5	0.2	ug/L	0.20 U	0.20 U	NA	NA	NA	0.20 U [0.2 U]	NA	0.20 U [0.2 U]	NA
Aroclor-1232	0.5	0.5	0.2	ug/L	0.40 U	0.40 U	NA	NA	NA	0.40 U [0.4 U]	NA	0.40 U [0.4 U]	NA
Aroclor-1242	0.5	0.5	0.2	ug/L	0.20 U	0.20 U	NA	NA	NA	0.20 U [0.2 U]	NA	0.20 U [0.2 U]	NA
Aroclor-1248	0.5	0.5	0.2	ug/L	0.20 U	0.20 U	NA	NA	NA	0.20 U [0.2 U]	NA	0.20 U [0.2 U]	NA
Aroclor-1254	0.5	0.5	0.2	ug/L	0.20 U	0.20 U	NA	NA	NA	0.20 U [0.2 U]	NA	0.20 U [0.2 U]	NA
Aroclor-1260	0.5	0.5	0.2	ug/L	0.20 U	0.20 U	NA	NA	NA	0.20 U [0.2 U]	NA	0.20 U [0.2 U]	NA
<b>PCBs-Filtered</b>													
Aroclor-1016 (PCB-1016) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Volatile Organics</b>													
1,2,3-Trimethylbenzene	60	130	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	24	76	19	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	2	6.8	2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	13	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	3,600	17,000	11,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	5,300	17,000	1,700	ug/L	10 U	1.9 J	NA	NA	NA	NA	9.4 J [9.2 J]	NA	50 U [50 U]
Benzene	5	5	200	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
Bromobenzene	47	150	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	80	80	--	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
Bromoform	80	80	--	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
Bromomethane	120	380	5	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
2-Butanone	2,400	11,000	2,200	ug/L	10 U	10 U	NA	NA	NA	NA	50 U [50 U]	NA	50 U [50 U]
n-Butylbenzene	270	870	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	440	1,800	--	ug/L	1.1	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
Carbon Tetrachloride	5	5	38	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
CFC-11	1,800	5,700	--	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
CFC-12	30	94	--	ug/L	2.0 U	2.0 U	NA	NA	NA	NA	10 U [10 U]	NA	10 U [10 U]
Chlorobenzene	100	100	25	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
Chlorobromomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorodibromomethane	80	80	--	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
Chloroethane	240	760	1,100	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
Chloroform	80	80	350	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
Chloromethane	220	1,100	--	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
Cyclohexane	--	--	--	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
Cymene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.2	0.2	--	ug/L	2.0 U	2.0 U	NA	NA	NA	NA	10 U [10 U]	NA	10 U [10 U]
1,2-Dibromoethane	0.05	0.05	5.7	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
Dibromomethane	18	57	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	600	13	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
1,3-Dichlorobenzene	12	38	28	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
1,4-Dichlorobenzene	75	75	17	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]

**Table 1**  
**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW1-03 11/02/05 MWW1-03-GW-110205FD	MWW1-03 05/17/06 MWW1-03-GW-051706TB	MWW1-03 08/15/06 MWW1-03-WG-081506	MWW1-03 08/15/06 MWW1-03-WG-081506(DISS)	MWW1-03 08/15/06 MWW1-03-WG-081506-FP	MWW1-03 11/13/06 MWW1-03-WG-111306	MWW1-03 11/13/06 MWW1-03-WG-111306DL	MWW1-03 05/04/07 MWW1-03-GW-050407	MWW1-03 05/04/07 MWW1-03-GW-050407DL
1,1-Dichloroethane	1,200	3,800	740	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
1,2-Dichloroethane	5	5	360	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
1,1-Dichloroethene	7	7	130	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
cis-1,2-Dichloroethene	70	70	620	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
trans-1,2-Dichloroethene	100	100	1,500	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
Dichloromethane	5	5	1,500	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	4.7 J [5.3]	NA	5.0 U [5 U]
1,2-Dichloropropane	5	5	230	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
cis-1,3-Dichloropropene	--	--	--	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
trans-1,3-Dichloropropene	--	--	--	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
Diethyl Ether	5	5	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	7.2	37	2,800	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	66	74	18	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
Isopropylbenzene	590	1,900	28	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
Methyl acetate	--	--	--	ug/L	10 U	10 U	NA	NA	NA	NA	50 U [50 U]	NA	50 U [50 U]
Methyl N-Butyl Ketone	50	94	--	ug/L	10 U	10 U	NA	NA	NA	NA	50 U [50 U]	NA	50 U [50 U]
Methylcyclohexane	--	--	--	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
4-Methyl-2-pentanone	300	940	--	ug/L	10 U	10 U	NA	NA	NA	NA	50 U [50 U]	NA	50 U [50 U]
Methyl tert-butyl ether	40	40	7,100	ug/L	5.0 U	5.0 U	NA	NA	NA	NA	25 U [25 U]	NA	25 U [25 U]
Naphthalene	590	1,900	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	100	80	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
1,1,1,2-Tetrachloroethane	28	140	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1,2,2-Tetrachloroethane	3.6	18	78	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
Tetrachloroethene	5	5	60	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
Toluene	470	790	270	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
1,2,3-Trichlorobenzene	16	51	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	70	99	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
1,1,1-Trichloroethane	200	200	89	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
1,1,2-Trichloroethane	5	5	330	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
Trichloroethene	5	5	200	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
1,2,3-Trichloropropane	1	1	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	160,000	170,000	32	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
1,2,4-Trimethylbenzene	60	63	17	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	60	72	45	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	2	2	13	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]
o-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	280	280	41	ug/L	2.0 U	2.0 U	NA	NA	NA	NA	10 U [10 U]	NA	10 U [10 U]
<b>Semivolatile Organics</b>													
1,1'-Biphenyl	--	--	--	ug/L	10 U	10 U	NA	NA	NA	10 U [10 U]	NA	10 U [10 U]	NA
2,2'-Oxybis(1-Chloropropane)	--	--	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
2,4,5-Trichlorophenol	180	570	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
2,4,6-Trichlorophenol	40	170	5	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
2,4-Dichlorophenol	80	330	11	ug/L	10 U	10 U	NA	NA	NA	10 U [10 U]	NA	10 U [10 U]	NA
2,4-Dimethylphenol	120	380	380	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
2,4-Dinitrophenol	12	38	19	ug/L	20 U	20 U	NA	NA	NA	20 U [20 U]	NA	20 U [20 U]	NA
2,4-Dinitrotoluene	1.1	5.5	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
2,6-Dinitrotoluene	--	--	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
2-Chloronaphthalene	470	1,500	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
2-Chlorophenol	32	130	18	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
2-Methylnaphthalene	24	76	19	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
2-Methylphenol	8,000	33,000	30	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
2-Nitroaniline	--	--	--	ug/L	20 U	20 U	NA	NA	NA	20 U [20 U]	NA	20 U [20 U]	NA
2-Nitrophenol	12	38	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
3,3'-Dichlorobenzidine	1.6	8.2	0.3	ug/L	20 U	20 U	NA	NA	NA	20 U [20 U]	NA	20 U [20 U]	NA

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**Pontiac North Campus**  
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Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW1-03 11/02/05	MWW1-03 05/17/06	MWW1-03 08/15/06	MWW1-03 08/15/06	MWW1-03 08/15/06	MWW1-03 11/13/06	MWW1-03 11/13/06	MWW1-03 05/04/07	MWW1-03 05/04/07
					MWW1-03-GW-110205FD	MWW1-03-GW-051706TB	MWW1-03-WG-081506	MWW1-03-WG-081506(DISS)	MWW1-03-WG-081506-FP	MWW1-03-WG-111306	MWW1-03-WG-111306DL	MWW1-03-GW-050407	MWW1-03-GW-050407DL
3-Nitroaniline	--	--	--	ug/L	20 U	20 U	NA	NA	NA	20 U [20 U]	NA	20 U [20 U]	NA
4,6-Dinitro-2-methylphenol	20	20	--	ug/L	20 U	20 U	NA	NA	NA	20 U [20 U]	NA	20 U [20 U]	NA
4-Bromophenyl-phenylether	--	--	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
4-Chloro-3-Methylphenol	400	1,700	7.4	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
4-Chloroaniline	3	9.4	--	ug/L	10 U	10 U	NA	NA	NA	10 U [10 U]	NA	10 U [10 U]	NA
4-Chlorophenyl-phenylether	--	--	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
4-Methylphenol	--	--	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
4-Nitroaniline	--	--	--	ug/L	20 U	20 U	NA	NA	NA	20 U [20 U]	NA	20 U [20 U]	NA
4-Nitrophenol	--	--	--	ug/L	20 U	20 U	NA	NA	NA	20 U [20 U]	NA	20 U [20 U]	NA
Acenaphthene	360	1,100	38	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Acenaphthylene	360	1,100	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Acetophenone	3,200	13,000	--	ug/L	10 U	10 U	NA	NA	NA	10 U [10 U]	NA	10 U [10 U]	NA
Anthracene	43	43	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Atrazine	3	3	7.3	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Benzaldehyde	--	--	--	ug/L	10 U	10 U	NA	NA	NA	10 U [10 U]	NA	10 U [10 U]	NA
Benzo(a)anthracene	2.3	9.4	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Benzo(a)pyrene	0.2	0.2	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Benzo(b)fluoranthene	1.5	1.5	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Benzo(g,h,i)perylene	1	1	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Benzo(k)fluoranthene	1	1	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
bis(2-Chloroethoxy)methane	--	--	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
bis(2-Chloroethyl)ether	1	3.3	1	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
bis(2-Ethylhexyl)phthalate	6	6	14	ug/L	5.0 U	1.3 J	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Butylbenzylphthalate	80	330	67	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Caprolactam	2,000	9,400	--	ug/L	10 U	10 U	NA	NA	NA	10 U [10 U]	NA	10 U [10 U]	NA
Carbazole	10	38	10	ug/L	10 U	10 U	NA	NA	NA	10 U [10 U]	NA	10 U [10 U]	NA
Chrysene	2	2	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Dibenzo(a,h)anthracene	2	2.5	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Dibenzofuran	5.9	19	4	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Diethylphthalate	4,700	15,000	110	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Dimethylphthalate	590	1,900	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Di-n-Butylphthalate	27	110	9.7	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Di-n-Octylphthalate	22	22	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Fluoranthene	240	260	1.6	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Fluorene	240	760	12	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Hexachlorobenzene	1	1	0.2	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Hexachlorocyclopentadiene	50	50	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Hexachloroethane	5	13	6.7	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Indeno(1,2,3-cd)pyrene	2	2	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Isophorone	760	3,800	1,300	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Nitrobenzene	12	38	180	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
N-Nitroso-di-n-propylamine	5	5	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
N-Nitrosodiphenylamine	150	750	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Pentachlorophenol	1	1	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Phenanthrene	180	570	2	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Phenol	1,200	5,700	450	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Pyrene	140	140	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Hexachloro-1,3-Butadiene	5.9	19	0.053	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Naphthalene	590	1,900	11	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
<b>Inorganics</b>													
Antimony	6	6	130	ug/L	25.0 U	25.0 U	NA	NA	NA	25.0 U [25 U]	NA	25.0 U [25 U]	NA
Arsenic	10	10	10	ug/L	10.0 U	2.0	NA	NA	NA	2.0 [1.7 J]	NA	1.0 J [1.4 J]	NA
Barium	2,000	2,000	670	ug/L	134	162	NA	NA	NA	219 [214]	NA	335 [339]	NA
Beryllium	4	4	6.7	ug/L	1.0 U	1.0 U	NA	NA	NA	1.0 U [1 U]	NA	1.0 U [1 U]	NA

**Table 1**  
**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW1-03 11/02/05 MWW1-03-GW-110205FD	MWW1-03 05/17/06 MWW1-03-GW-051706TB	MWW1-03 08/15/06 MWW1-03-WG-081506	MWW1-03 08/15/06 MWW1-03-WG-081506(DISS)	MWW1-03 08/15/06 MWW1-03-WG-081506-FP	MWW1-03 11/13/06 MWW1-03-WG-111306	MWW1-03 11/13/06 MWW1-03-WG-111306DL	MWW1-03 05/04/07 MWW1-03-GW-050407	MWW1-03 05/04/07 MWW1-03-GW-050407DL
Cadmium	5	5	2.5	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Calcium	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	100	11	ug/L	4.6 J	3.3 J	NA	NA	NA	10.0 U [10 U]	NA	10.0 U [10 U]	NA
Cobalt	20	20	100	ug/L	1.6 J	1.8 J	NA	NA	NA	20.0 U [20 U]	NA	20.0 U [20 U]	NA
Copper	30	95	13	ug/L	4.1 J	3.2 J	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [2.1 J]	NA
Cyanide (total)	--	--	--	ug/L	10 U	10 U	NA	NA	NA	10 [5.8 J]	NA	4.9 J [5.5 J]	NA
Iron	300	300	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1	1	14	ug/L	18.1	4.4	NA	NA	NA	3.0 U [3 U]	NA	3.0 U [3 U]	NA
Magnesium	330,000	1,000,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	50	1,300	ug/L	675 J	737 J	NA	NA	NA	741 J [724 J]	NA	1,130 [1,130]	NA
Mercury	2	2	0.0013	ug/L	0.20 U	0.20 U	NA	NA	NA	0.20 U [0.2 U]	NA	0.20 U [0.2 U]	NA
Nickel	36	110	73	ug/L	9.3 J	4.6 J	NA	NA	NA	20.0 U [20 U]	NA	3.3 J [20 U]	NA
Selenium	50	50	5	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Silver	5.9	19	0.2	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA	5.0 U [5 U]	NA
Thallium	2	2	3.7	ug/L	1.0 U	1.0 U	NA	NA	NA	1.0 U [1 U]	NA	1.0 U [1 U]	NA
Vanadium	4	4	27	ug/L	3.2 J	10.0 U	NA	NA	NA	10.0 U [10 U]	NA	10.0 U [10 U]	NA
Zinc	1,800	5,000	170	ug/L	35.2	20.5	NA	NA	NA	20.0 U [20 U]	NA	20.0 U [20 U]	NA
<b>Inorganics-Filtered</b>													
Antimony (dissolved)	6	6	130	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (dissolved)	10	10	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (dissolved)	2,000	2,000	670	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (dissolved)	4	4	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (dissolved)	5	5	2.5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (dissolved)	--	--	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (dissolved)	20	20	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (dissolved)	30	95	13	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (dissolved)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (dissolved)	1	1	14	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (dissolved)	50	50	1,300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (dissolved)	--	--	0.0013	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (dissolved)	36	110	73	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (dissolved)	50	50	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (dissolved)	5.9	19	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (dissolved)	2	2	3.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (dissolved)	4	4	27	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (dissolved)	1,800	5,000	170	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous</b>													
Alkalinity, total (as CaCO3)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	--	--	--	none	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	500,000	500,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Field</b>													
Conductivity, field	--	--	--	mS/cm	NA	NA	NA	NA	NA	4.18	NA	NA	NA
Conductivity, field	--	--	--	umhos/cm	NA	NA	NA	NA	2.6	NA	NA	6,340	NA
Dissolved oxygen (DO), field	--	--	--	ug/L	NA	NA	NA	NA	140	140	NA	320	NA
Oxidation reduction potential (ORP), field	--	--	--	millivolts	NA	NA	NA	NA	-81.0	-153.0	NA	-118.0	NA
Temperature, ambient	--	--	--	deg f	NA	NA	NA	NA	65	40	NA	NA	NA
Temperature, field	--	--	--	deg c	NA	NA	NA	NA	22.3	10.38	NA	13.63	NA
Turbidity (field)	--	--	--	NTU	NA	NA	NA	NA	3.29	4.6	NA	4.22	NA
<b>Dioxins/Furans</b>													
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	--	pg/L	14 U	12 U	4.3 U	NA	NA	4.7 U [4.8 U]	NA	4.8 U [5.1 U]	NA
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	--	--	--	pg/L	18 U	60 J	8.1 U	NA	NA	19 U [22 U]	NA	6.8 UJ [7.5 UJ]	NA

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**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW1-03 11/02/05 MWW1-03-GW-110205FD	MWW1-03 05/17/06 MWW1-03-GW-051706TB	MWW1-03 08/15/06 MWW1-03-WG-081506	MWW1-03 08/15/06 MWW1-03-WG-081506(DISS)	MWW1-03 08/15/06 MWW1-03-WG-081506-FP	MWW1-03 11/13/06 MWW1-03-WG-111306	MWW1-03 11/13/06 MWW1-03-WG-111306DL	MWW1-03 05/04/07 MWW1-03-GW-050407	MWW1-03 05/04/07 MWW1-03-GW-050407DL
1,2,3,4,6,7,8-HpCDD	--	--	--	pg/L	8.9 U	23 U	2.8 U	NA	NA	3.4 U [3.1 U]	NA	3.3 U [1.9 U]	NA
1,2,3,4,6,7,8-HpCDF	--	--	--	pg/L	5.1 U	16 U	2.3 U	NA	NA	2.0 U [2 U]	NA	2.3 U [1.8 U]	NA
1,2,3,4,7,8,9-HpCDF	--	--	--	pg/L	6.5 U	7.6 U	2.8 U	NA	NA	2.4 U [2.3 U]	NA	3.0 U [2.3 U]	NA
1,2,3,4,7,8-HxCDD	--	--	--	pg/L	7.3 U	8.2 U	3.1 U	NA	NA	3.0 U [3.1 U]	NA	6.8 U [6.9 U]	NA
1,2,3,4,7,8-HxCDF	--	--	--	pg/L	6.0 U	8.0 U	4.0 U	NA	NA	2.1 U [2.3 U]	NA	4.2 U [4.8 U]	NA
1,2,3,6,7,8-HxCDD	--	--	--	pg/L	5.6 U	7.5 U	2.8 U	NA	NA	2.9 U [3 U]	NA	4.8 U [4.9 U]	NA
1,2,3,6,7,8-HxCDF	--	--	--	pg/L	5.2 U	7.4 U	3.8 U	NA	NA	1.9 U [2.1 U]	NA	3.6 U [4.2 U]	NA
1,2,3,7,8,9-HxCDD	--	--	--	pg/L	6.4 U	7.3 U	2.8 U	NA	NA	2.8 U [2.9 U]	NA	5.3 U [5.5 U]	NA
1,2,3,7,8,9-HxCDF	--	--	--	pg/L	8.0 U	8.3 U	4.5 U	NA	NA	2.4 U [2.7 U]	NA	5.1 U [5.9 U]	NA
1,2,3,7,8-PeCDD	--	--	--	pg/L	8.0 U	16 U	4.0 U	NA	NA	3.4 U [4 U]	NA	4.0 U [4.5 U]	NA
1,2,3,7,8-PeCDF	--	--	--	pg/L	5.1 U	11 U	2.6 U	NA	NA	1.8 U [1.9 U]	NA	2.8 U [2.3 U]	NA
2,3,4,6,7,8-HxCDF	--	--	--	pg/L	6.6 U	8.1 U	4.1 U	NA	NA	2.2 U [2.4 U]	NA	4.4 U [5 U]	NA
2,3,4,7,8-PeCDF	--	--	--	pg/L	5.1 U	11 U	2.6 U	NA	NA	1.8 U [1.9 U]	NA	2.6 U [2.2 U]	NA
2,3,7,8-TCDD	<b>30</b>	<b>30</b>	<b>10</b>	pg/L	4.8 U	4.1 UJ	2.3 U	NA	NA	1.3 U [1.3 U]	NA	1.9 U [2.3 U]	NA
2,3,7,8-TCDF	--	--	--	pg/L	3.5 U	3.8 UJ	2.3 U	NA	NA	1.4 U [1.5 U]	NA	2.2 U [4.9 U]	NA
Total heptachlorodibenzofuran (HpCDF)	--	--	--	pg/L	6.5 U	16 U	2.8 U	NA	NA	2.4 U [2.3 U]	NA	3.0 U [2.3 U]	NA
Total heptachlorodibenzo-p-dioxin (HpCDD)	--	--	--	pg/L	8.9 U	23 U	2.8 U	NA	NA	3.4 U [3.1 U]	NA	3.3 U [1.9 U]	NA
Total hexachlorodibenzofuran (HxCDF)	--	--	--	pg/L	8.0 U	8.3 U	4.5 U	NA	NA	2.4 U [2.7 U]	NA	5.1 U [5.9 U]	NA
Total hexachlorodibenzo-p-dioxin (HxCDD)	--	--	--	pg/L	7.3 U	8.2 U	3.1 U	NA	NA	3.0 U [3.1 U]	NA	6.8 U [6.9 U]	NA
Total pentachlorodibenzofuran (PeCDF)	--	--	--	pg/L	5.1 U	11 U	3.0 U	NA	NA	1.8 U [1.9 U]	NA	4.1 U [2.3 U]	NA
Total pentachlorodibenzo-p-dioxin (PeCDD)	--	--	--	pg/L	8.0 U	21 U	4.0 U	NA	NA	13 U [11 U]	NA	4.0 U [4.5 U]	NA
Total TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzofuran (TCDF)	--	--	--	pg/L	3.5 U	3.8 U	2.3 U	NA	NA	1.6 U [1.5 U]	NA	13 J [4.9 U]	NA
Total tetrachlorodibenzo-p-dioxin (TCDD)	--	--	--	pg/L	4.8 U	4.1 U	2.3 U	NA	NA	1.3 U [1.3 U]	NA	1.9 U [2.3 U]	NA

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**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW1-03 11/07/07 MWW1-03-GW-110707	MWW1-03 05/07/08 MWW1-03-GW-050708	MWW1-03 05/07/08 MWW1-03-GW-050708-FP	MWW1-03 11/06/08 MWW1-03-GW-110608	MWW1-03 11/06/08 MWW1-03-GW-110608-FP	MWW1-03 11/06/08 MWW1-03-GW-110608R2	MWW1-03 08/21/13 MWW1-03_08212013	MWW1-15 02/07/07 MWW1-15-GW-020707-FP	MWW1-15 03/22/07 MWW1-15-GW-032207
<b>PCBs</b>													
Aroclor-1016	0.5	0.5	0.2	ug/L	0.20 U [0.2 U]	0.20 U [0.2 U]	NA	0.20 U [0.2 U]	NA	NA	0.098 U	NA	NA
Aroclor-1221	0.5	0.5	0.2	ug/L	0.20 U [0.2 U]	0.20 U [0.2 U]	NA	0.20 U [0.2 U]	NA	NA	0.098 U	NA	NA
Aroclor-1232	0.5	0.5	0.2	ug/L	0.40 U [0.4 U]	0.40 U [0.4 U]	NA	0.40 U [0.4 U]	NA	NA	0.098 U	NA	NA
Aroclor-1242	0.5	0.5	0.2	ug/L	0.20 U [0.2 U]	0.20 U [0.2 U]	NA	0.20 U [0.2 U]	NA	NA	0.098 U	NA	NA
Aroclor-1248	0.5	0.5	0.2	ug/L	0.20 U [0.2 U]	0.20 U [0.2 U]	NA	0.20 U [0.2 U]	NA	NA	0.098 U	NA	NA
Aroclor-1254	0.5	0.5	0.2	ug/L	0.20 U [0.2 U]	0.20 U [0.2 U]	NA	0.20 U [0.2 U]	NA	NA	0.098 U	NA	NA
Aroclor-1260	0.5	0.5	0.2	ug/L	0.20 U [0.2 U]	0.20 U [0.2 U]	NA	0.20 U [0.2 U]	NA	NA	0.098 U	NA	NA
<b>PCBs-Filtered</b>													
Aroclor-1016 (PCB-1016) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Volatile Organics</b>													
1,2,3-Trimethylbenzene	60	130	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	24	76	19	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	2	6.8	2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	13	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	3,600	17,000	11,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	5,300	17,000	1,700	ug/L	10 U [20 U]	10 U [10 U]	NA	1.7 J [3 J]	NA	NA	1.9 J	NA	NA
Benzene	5	5	200	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA
Bromobenzene	47	150	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	80	80	--	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA
Bromoform	80	80	--	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA
Bromomethane	120	380	5	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA
2-Butanone	2,400	11,000	2,200	ug/L	10 U [20 U]	10 U [10 U]	NA	0.63 J [0.71 J]	NA	NA	25 U	NA	NA
n-Butylbenzene	270	870	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	440	1,800	--	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	5.0 U	NA	NA
Carbon Tetrachloride	5	5	38	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U*	NA	NA
CFC-11	1,800	5,700	--	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA
CFC-12	30	94	--	ug/L	2.0 U [4 U]	2.0 U [2 U]	NA	2.0 U [2 U]	NA	NA	1.0 U	NA	NA
Chlorobenzene	100	100	25	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA
Chlorobromomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorodibromomethane	80	80	--	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U*	NA	NA
Chloroethane	240	760	1,100	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA
Chloroform	80	80	350	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA
Chloromethane	220	1,100	--	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA
Cyclohexane	--	--	--	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA
Cymene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.2	0.2	--	ug/L	2.0 U [4 U]	2.0 U [2 U]	NA	2.0 U [2 U]	NA	NA	1.0 U	NA	NA
1,2-Dibromoethane	0.05	0.05	5.7	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA
Dibromomethane	18	57	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	600	13	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA
1,3-Dichlorobenzene	12	38	28	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA
1,4-Dichlorobenzene	75	75	17	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA

**Table 1**  
**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW1-03 11/07/07 MWW1-03-GW-110707	MWW1-03 05/07/08 MWW1-03-GW-050708	MWW1-03 05/07/08 MWW1-03-GW-050708-FP	MWW1-03 11/06/08 MWW1-03-GW-110608	MWW1-03 11/06/08 MWW1-03-GW-110608-FP	MWW1-03 11/06/08 MWW1-03-GW-110608R2	MWW1-03 08/21/13 MWW1-03_08212013	MWW1-15 02/07/07 MWW1-15-GW-020707-FP	MWW1-15 03/22/07 MWW1-15-GW-032207
1,1-Dichloroethane	1,200	3,800	740	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA
1,2-Dichloroethane	5	5	360	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA
1,1-Dichloroethene	7	7	130	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA
cis-1,2-Dichloroethene	70	70	620	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA
trans-1,2-Dichloroethene	100	100	1,500	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA
Dichloromethane	5	5	1,500	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	5.0 U	NA	NA
1,2-Dichloropropane	5	5	230	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA
cis-1,3-Dichloropropene	--	--	--	ug/L	1.0 U [2 U]	1.0 UJ [1 UJ]	NA	1.0 UJ [1 UJ]	NA	NA	1.0 U	NA	NA
trans-1,3-Dichloropropene	--	--	--	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 UJ [1 UJ]	NA	NA	1.0 U*	NA	NA
Diethyl Ether	5	5	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	7.2	37	2,800	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	66	74	18	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 UJ [1 UJ]	NA	NA	1.0 U	NA	NA
Isopropylbenzene	590	1,900	28	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	5.0 U	NA	NA
Methyl acetate	--	--	--	ug/L	10 U [20 U]	10 U [10 U]	NA	10 U [10 U]	NA	NA	10 U	NA	NA
Methyl N-Butyl Ketone	50	94	--	ug/L	10 U [20 U]	10 U [10 U]	NA	10 U [10 U]	NA	NA	50 U	NA	NA
Methylcyclohexane	--	--	--	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 UJ [1 UJ]	NA	NA	1.0 U	NA	NA
4-Methyl-2-pentanone	300	940	--	ug/L	10 U [20 U]	10 U [10 U]	NA	10 U [10 U]	NA	NA	50 U	NA	NA
Methyl tert-butyl ether	40	40	7,100	ug/L	5.0 U [10 U]	5.0 U [5 U]	NA	5.0 U [5 U]	NA	NA	5.0 U	NA	NA
Naphthalene	590	1,900	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	100	80	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA
1,1,1,2-Tetrachloroethane	28	140	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1,2,2-Tetrachloroethane	3.6	18	78	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA
Tetrachloroethene	5	5	60	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA
Toluene	470	790	270	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA
1,2,3-Trichlorobenzene	16	51	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	70	99	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA
1,1,1-Trichloroethane	200	200	89	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA
1,1,2-Trichloroethane	5	5	330	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA
Trichloroethene	5	5	200	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA
1,2,3-Trichloropropane	1	1	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	160,000	170,000	32	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA
1,2,4-Trimethylbenzene	60	63	17	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	60	72	45	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	2	2	13	ug/L	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA
o-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	280	280	41	ug/L	2.0 U [4 U]	2.0 UJ [2 UJ]	NA	2.0 U [2 U]	NA	NA	2.0 U	NA	NA
<b>Semivolatile Organics</b>													
1,1'-Biphenyl	--	--	--	ug/L	10 U [10 U]	10 U [10 U]	NA	NA	NA	10 UJ	0.97 U	NA	NA
2,2'-Oxybis(1-Chloropropane)	--	--	--	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	0.97 U	NA	NA
2,4,5-Trichlorophenol	180	570	--	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA
2,4,6-Trichlorophenol	40	170	5	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	3.9 U	NA	NA
2,4-Dichlorophenol	80	330	11	ug/L	10 U [10 U]	10 U [10 U]	NA	NA	NA	10 U	9.7 U	NA	NA
2,4-Dimethylphenol	120	380	380	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA
2,4-Dinitrophenol	12	38	19	ug/L	20 U [20 U]	20 U [20 U]	NA	NA	NA	20 U	19 U	NA	NA
2,4-Dinitrotoluene	1.1	5.5	--	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA
2,6-Dinitrotoluene	--	--	--	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA
2-Chloronaphthalene	470	1,500	--	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 UJ	4.9 U	NA	NA
2-Chlorophenol	32	130	18	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA
2-Methylnaphthalene	24	76	19	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA
2-Methylphenol	8,000	33,000	30	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA
2-Nitroaniline	--	--	--	ug/L	20 U [20 U]	20 U [20 U]	NA	NA	NA	20 U	19 U	NA	NA
2-Nitrophenol	12	38	--	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA
3,3'-Dichlorobenzidine	1.6	8.2	0.3	ug/L	20 U [20 U]	20 U [20 U]	NA	NA	NA	20 U	4.9 U	NA	NA

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**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW1-03 11/07/07 MWW1-03-GW-110707	MWW1-03 05/07/08 MWW1-03-GW-050708	MWW1-03 05/07/08 MWW1-03-GW-050708-FP	MWW1-03 11/06/08 MWW1-03-GW-110608	MWW1-03 11/06/08 MWW1-03-GW-110608-FP	MWW1-03 11/06/08 MWW1-03-GW-110608R2	MWW1-03 08/21/13 MWW1-03_08212013	MWW1-15 02/07/07 MWW1-15-GW-020707-FP	MWW1-15 03/22/07 MWW1-15-GW-032207
3-Nitroaniline	--	--	--	ug/L	20 U [20 U]	20 U [20 U]	NA	NA	NA	20 U	19 U	NA	NA
4,6-Dinitro-2-methylphenol	20	20	--	ug/L	20 U [20 U]	20 U [20 U]	NA	NA	NA	20 U	19 U	NA	NA
4-Bromophenyl-phenylether	--	--	--	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA
4-Chloro-3-Methylphenol	400	1,700	7.4	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA
4-Chloroaniline	3	9.4	--	ug/L	10 U [10 U]	10 U [10 U]	NA	NA	NA	10 U	1.9 U	NA	NA
4-Chlorophenyl-phenylether	--	--	--	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA
4-Methylphenol	--	--	--	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA
4-Nitroaniline	--	--	--	ug/L	20 U [20 U]	20 U [20 U]	NA	NA	NA	20 U	19 U	NA	NA
4-Nitrophenol	--	--	--	ug/L	20 U [20 U]	20 U [20 U]	NA	NA	NA	20 U	19 U	NA	NA
Acenaphthene	360	1,100	38	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA
Acenaphthylene	360	1,100	--	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA
Acetophenone	3,200	13,000	--	ug/L	10 U [10 U]	10 U [10 U]	NA	NA	NA	10 U	0.97 U	NA	NA
Anthracene	43	43	--	ug/L	5.0 U [0.21 J]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA
Atrazine	3	3	7.3	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	0.97 U	NA	NA
Benzaldehyde	--	--	--	ug/L	10 U [10 U]	10 U [10 U]	NA	NA	NA	10 U	0.97 U	NA	NA
Benzo(a)anthracene	2.3	9.4	--	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	0.97 U	NA	NA
Benzo(a)pyrene	0.2	0.2	--	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	0.97 U	NA	NA
Benzo(b)fluoranthene	1.5	1.5	--	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	0.97 U	NA	NA
Benzo(g,h,i)perylene	1	1	--	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	0.97 U	NA	NA
Benzo(k)fluoranthene	1	1	--	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	0.97 U	NA	NA
bis(2-Chloroethoxy)methane	--	--	--	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA
bis(2-Chloroethyl)ether	1	3.3	1	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	0.97 U	NA	NA
bis(2-Ethylhexyl)phthalate	6	6	14	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	0.58 JB	NA	NA
Butylbenzylphthalate	80	330	67	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA
Caprolactam	2,000	9,400	--	ug/L	10 U [10 U]	10 U [10 U]	NA	NA	NA	10 U	4.9 U	NA	NA
Carbazole	10	38	10	ug/L	10 U [10 U]	10 U [10 U]	NA	NA	NA	10 U	9.7 U	NA	NA
Chrysene	2	2	--	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	0.97 U	NA	NA
Dibenzo(a,h)anthracene	2	2.5	--	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	1.9 U	NA	NA
Dibenzofuran	5.9	19	4	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	3.9 U	NA	NA
Diethylphthalate	4,700	15,000	110	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA
Dimethylphthalate	590	1,900	--	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA
Di-n-Butylphthalate	27	110	9.7	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA
Di-n-Octylphthalate	22	22	--	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA
Fluoranthene	240	260	1.6	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	0.97 U	NA	NA
Fluorene	240	760	12	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA
Hexachlorobenzene	1	1	0.2	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	0.19 U	NA	NA
Hexachlorocyclopentadiene	50	50	--	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA
Hexachloroethane	5	13	6.7	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA
Indeno(1,2,3-cd)pyrene	2	2	--	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	1.9 U	NA	NA
Isophorone	760	3,800	1,300	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA
Nitrobenzene	12	38	180	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	2.9 U	NA	NA
N-Nitroso-di-n-propylamine	5	5	--	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA
N-Nitrosodiphenylamine	150	750	--	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA
Pentachlorophenol	1	1	--	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA
Phenanthrene	180	570	2	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	1.9 U	NA	NA
Phenol	1,200	5,700	450	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA
Pyrene	140	140	--	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA
Hexachloro-1,3-Butadiene	5.9	19	0.053	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	0.97 U	NA	NA
Naphthalene	590	1,900	11	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA
<b>Inorganics</b>													
Antimony	6	6	130	ug/L	10.2 J [2.7 J]	25.0 U [25 U]	NA	25.0 U [25 U]	NA	NA	0.15 J	NA	NA
Arsenic	10	10	10	ug/L	7.3 [5.4]	1.5 J [1.5 J]	NA	4.0 [4.3]	NA	NA	12 B	NA	NA
Barium	2,000	2,000	670	ug/L	96.9 J [95 J]	240 J [249 J]	NA	96.1 J [93.9 J]	NA	NA	180 B	NA	NA
Beryllium	4	4	6.7	ug/L	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	0.24 JB	NA	NA

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**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW1-03 11/07/07 MWW1-03-GW-110707	MWW1-03 05/07/08 MWW1-03-GW-050708	MWW1-03 05/07/08 MWW1-03-GW-050708-FP	MWW1-03 11/06/08 MWW1-03-GW-110608	MWW1-03 11/06/08 MWW1-03-GW-110608-FP	MWW1-03 11/06/08 MWW1-03-GW-110608R2	MWW1-03 08/21/13 MWW1-03_08212013	MWW1-15 02/07/07 MWW1-15-GW-020707-FP	MWW1-15 03/22/07 MWW1-15-GW-032207
Cadmium	5	5	2.5	ug/L	5.0 U [5 U]	1.2 J [5 U]	NA	5.0 U [5 U]	NA	NA	0.50 U	NA	NA
Calcium	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	100	11	ug/L	10.0 U [10 U]	4.5 J [10 U]	NA	10.0 U [10 U]	NA	NA	0.45 JB	NA	NA
Cobalt	20	20	100	ug/L	20.0 U [20 U]	4.1 J [20 U]	NA	20.0 U [20 U]	NA	NA	1.2	NA	NA
Copper	30	95	13	ug/L	5.0 U [5 U]	5.6 [5 U]	NA	5.0 U [5 U]	NA	NA	1.6 JB	NA	NA
Cyanide (total)	--	--	--	ug/L	10 U [10 U]	5.3 B [5 B]	NA	10 U [10 U]	NA	NA	NA	NA	NA
Iron	300	300	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1	1	14	ug/L	2.9 J [3 U]	3.0 U [3 U]	NA	3.0 U [3 U]	NA	NA	0.30 JB	NA	NA
Magnesium	330,000	1,000,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	50	1,300	ug/L	425 J [434 J]	324 J [296 J]	NA	1,050 J [1,030 J]	NA	NA	990 B	NA	NA
Mercury	2	2	0.0013	ug/L	0.20 U [0.2 U]	0.20 U [0.2 U]	NA	0.20 U [0.2 U]	NA	NA	0.20 U	NA	NA
Nickel	36	110	73	ug/L	20.0 U [3.7 J]	6.5 J [20 U]	NA	5.5 J [5.5 J]	NA	NA	6.9 B	NA	NA
Selenium	50	50	5	ug/L	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]	NA	NA	0.39 J	NA	NA
Silver	5.9	19	0.2	ug/L	5.0 U [5 U]	4.2 J [5 U]	NA	5.0 U [5 U]	NA	NA	0.20 U	NA	NA
Thallium	2	2	3.7	ug/L	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA
Vanadium	4	4	27	ug/L	3.3 J [2.5 J]	4.0 J [10 U]	NA	10.0 U [10 U]	NA	NA	0.77 JB	NA	NA
Zinc	1,800	5,000	170	ug/L	5.0 J [20 U]	8.1 J [7.7 J]	NA	20.0 U [20 U]	NA	NA	7.9 JB	NA	NA
<b>Inorganics-Filtered</b>													
Antimony (dissolved)	6	6	130	ug/L	NA	NA	NA	NA	NA	NA	0.15 J	NA	NA
Arsenic (dissolved)	10	10	10	ug/L	NA	NA	NA	NA	NA	NA	11 B	NA	NA
Barium (dissolved)	2,000	2,000	670	ug/L	NA	NA	NA	NA	NA	NA	170 B	NA	NA
Beryllium (dissolved)	4	4	6.7	ug/L	NA	NA	NA	NA	NA	NA	0.20 JB	NA	NA
Cadmium (dissolved)	5	5	2.5	ug/L	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA
Chromium (dissolved)	--	--	11	ug/L	NA	NA	NA	NA	NA	NA	0.28 JB	NA	NA
Cobalt (dissolved)	20	20	100	ug/L	NA	NA	NA	NA	NA	NA	1.1	NA	NA
Copper (dissolved)	30	95	13	ug/L	NA	NA	NA	NA	NA	NA	1.4 JB	NA	NA
Iron (dissolved)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (dissolved)	1	1	14	ug/L	NA	NA	NA	NA	NA	NA	0.42 JB	NA	NA
Manganese (dissolved)	50	50	1,300	ug/L	NA	NA	NA	NA	NA	NA	930 B	NA	NA
Mercury (dissolved)	--	--	0.0013	ug/L	NA	NA	NA	NA	NA	NA	0.20 U	NA	NA
Nickel (dissolved)	36	110	73	ug/L	NA	NA	NA	NA	NA	NA	4.7 B	NA	NA
Selenium (dissolved)	50	50	5	ug/L	NA	NA	NA	NA	NA	NA	0.68 J	NA	NA
Silver (dissolved)	5.9	19	0.2	ug/L	NA	NA	NA	NA	NA	NA	0.20 U	NA	NA
Thallium (dissolved)	2	2	3.7	ug/L	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
Vanadium (dissolved)	4	4	27	ug/L	NA	NA	NA	NA	NA	NA	0.71 JB	NA	NA
Zinc (dissolved)	1,800	5,000	170	ug/L	NA	NA	NA	NA	NA	NA	10 U	NA	NA
<b>Miscellaneous</b>													
Alkalinity, total (as CaCO3)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	--	--	--	none	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	500,000	500,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Field</b>													
Conductivity, field	--	--	--	mS/cm	NA	NA	NA	NA	NA	NA	NA	NA	7.7
Conductivity, field	--	--	--	umhos/cm	2.71	NA	4.27	NA	1.412	NA	NA	1.83	NA
Dissolved oxygen (DO), field	--	--	--	ug/L	3,080	NA	1,630	NA	160	NA	NA	140	160
Oxidation reduction potential (ORP), field	--	--	--	millivolts	-78.0	NA	-54.0	NA	NA	NA	NA	-126.0	-171.0
Temperature, ambient	--	--	--	deg f	40	NA	65	NA	60	NA	NA	NA	55
Temperature, field	--	--	--	deg c	13.16	NA	15.62	NA	12.08	NA	NA	5.55	9.63
Turbidity (field)	--	--	--	NTU	4.8	NA	NA	NA	1.41	NA	NA	1.2	4.63
<b>Dioxins/Furans</b>													
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	--	pg/L	9.7 U [7.7 U]	3.7 U [7.3 U]	NA	4.2 U [5.1 U]	NA	NA	NA	NA	NA
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	--	--	--	pg/L	11 U [7.6 U]	4.8 U [6.7 U]	NA	6.0 U [5.3 U]	NA	NA	NA	NA	NA

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**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW1-03 11/07/07 MWW1-03-GW-110707	MWW1-03 05/07/08 MWW1-03-GW-050708	MWW1-03 05/07/08 MWW1-03-GW-050708-FP	MWW1-03 11/06/08 MWW1-03-GW-110608	MWW1-03 11/06/08 MWW1-03-GW-110608-FP	MWW1-03 11/06/08 MWW1-03-GW-110608R2	MWW1-03 08/21/13 MWW1-03_08212013	MWW1-15 02/07/07 MWW1-15-GW-020707-FP	MWW1-15 03/22/07 MWW1-15-GW-032207
1,2,3,4,6,7,8-HpCDD	--	--	--	pg/L	5.6 U [4.8 U]	2.0 U [4.4 U]	NA	4.9 U [4.3 U]	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	--	--	--	pg/L	5.4 U [2.9 U]	1.8 U [3.3 U]	NA	2.2 U [2.6 U]	NA	NA	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	--	--	--	pg/L	6.3 U [3.4 U]	2.2 U [4.1 U]	NA	2.5 U [3.1 U]	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDD	--	--	--	pg/L	6.9 U [4.6 U]	2.1 U [4.5 U]	NA	4.0 U [4.4 U]	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDF	--	--	--	pg/L	4.4 U [2.9 U]	1.4 U [2.2 U]	NA	2.9 U [3.4 U]	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDD	--	--	--	pg/L	7.4 U [5 U]	2.0 U [3.8 U]	NA	3.5 U [3.9 U]	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDF	--	--	--	pg/L	4.3 U [2.9 U]	1.3 U [1.9 U]	NA	2.5 U [2.9 U]	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDD	--	--	--	pg/L	5.7 U [3.8 U]	1.8 U [4 U]	NA	3.5 U [3.9 U]	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDF	--	--	--	pg/L	4.5 U [3 U]	1.5 U [2.5 U]	NA	2.9 U [3.4 U]	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDD	--	--	--	pg/L	9.7 U [6.6 U]	3.0 U [4.6 U]	NA	5.3 U [5.3 U]	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDF	--	--	--	pg/L	5.8 U [4.3 U]	1.9 U [2.5 U]	NA	3.9 U [4 U]	NA	NA	NA	NA	NA
2,3,4,6,7,8-HxCDF	--	--	--	pg/L	4.5 U [3 U]	1.3 U [2.2 U]	NA	2.8 U [3.2 U]	NA	NA	NA	NA	NA
2,3,4,7,8-PeCDF	--	--	--	pg/L	6.0 U [4.4 U]	2.0 U [2.6 U]	NA	4.1 U [4.2 U]	NA	NA	NA	NA	NA
2,3,7,8-TCDD	<b>30</b>	<b>30</b>	<b>10</b>	pg/L	5.0 U [3.2 U]	1.4 U [2.4 U]	NA	3.3 U [3.8 U]	NA	NA	NA	NA	NA
2,3,7,8-TCDF	--	--	--	pg/L	3.7 U [2.6 U]	1.1 U [1.7 U]	NA	2.3 U [2.4 U]	NA	NA	NA	NA	NA
Total heptachlorodibenzofuran (HpCDF)	--	--	--	pg/L	6.3 U [3.4 U]	2.2 U [4.1 U]	NA	2.5 U [3.1 U]	NA	NA	NA	NA	NA
Total heptachlorodibenzo-p-dioxin (HpCDD)	--	--	--	pg/L	5.6 U [4.8 U]	2.0 U [4.4 U]	NA	4.9 U [4.3 U]	NA	NA	NA	NA	NA
Total hexachlorodibenzofuran (HxCDF)	--	--	--	pg/L	4.5 U [3 U]	1.5 U [2.5 U]	NA	2.9 U [3.4 U]	NA	NA	NA	NA	NA
Total hexachlorodibenzo-p-dioxin (HxCDD)	--	--	--	pg/L	7.4 U [5 U]	2.1 U [4.5 U]	NA	4.0 U [4.4 U]	NA	NA	NA	NA	NA
Total pentachlorodibenzofuran (PeCDF)	--	--	--	pg/L	6.1 U [4.6 U]	2.0 U [2.6 U]	NA	4.1 U [4.2 U]	NA	NA	NA	NA	NA
Total pentachlorodibenzo-p-dioxin (PeCDD)	--	--	--	pg/L	9.7 U [6.6 U]	3.0 U [4.6 U]	NA	5.3 U [5.3 U]	NA	NA	NA	NA	NA
Total TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzofuran (TCDF)	--	--	--	pg/L	3.7 U [2.6 U]	1.1 U [1.7 U]	NA	2.3 U [2.4 U]	NA	NA	NA	NA	NA
Total tetrachlorodibenzo-p-dioxin (TCDD)	--	--	--	pg/L	5.0 U [3.2 U]	1.4 U [2.4 U]	NA	3.3 U [3.8 U]	NA	NA	NA	NA	NA

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**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW1-15 10/05/07 MWW1-15-GW-100507-FP	MWW1-15 11/14/07 MWW1-15-GW-111407	MWW01-SEN03 02/19/13 MWW01-SEN03_021913	MWW01-SEN03 06/25/13 MWW01-SEN03_062513	MWW01-SEN03 12/03/13 MWW01-SEN03_20131203	MWW01-SEN03 05/18/16 MWW01-SEN03-GW-051816	MWW01-SEN03 09/21/16 MWW01-SEN03_092116	MWW01-SEN03 04/27/17 MWW01-SEN03_GW-042717	MWW01-SEN04 10/03/12 MWW01-SEN04
<b>PCBs</b>													
Aroclor-1016	0.5	0.5	0.2	ug/L	NA	NA	0.095 U	0.10 U	0.096 U	NA	NA	NA	0.096 U
Aroclor-1221	0.5	0.5	0.2	ug/L	NA	NA	0.095 U	0.10 U	0.096 U	NA	NA	NA	0.096 U
Aroclor-1232	0.5	0.5	0.2	ug/L	NA	NA	0.095 U	0.10 U	0.096 U	NA	NA	NA	0.096 U
Aroclor-1242	0.5	0.5	0.2	ug/L	NA	NA	0.095 U	0.10 U	0.096 U	NA	NA	NA	0.096 U
Aroclor-1248	0.5	0.5	0.2	ug/L	NA	NA	0.095 U	0.10 U	0.096 U	NA	NA	NA	1.9
Aroclor-1254	0.5	0.5	0.2	ug/L	NA	NA	0.095 U	0.10 U	0.096 U	NA	NA	NA	0.096 U
Aroclor-1260	0.5	0.5	0.2	ug/L	NA	NA	0.095 U	0.10 U	0.096 U	NA	NA	NA	0.096 U
<b>PCBs-Filtered</b>													
Aroclor-1016 (PCB-1016) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Volatile Organics</b>													
1,2,3-Trimethylbenzene	60	130	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA
2-Methylnaphthalene	24	76	19	ug/L	NA	NA	NA	NA	NA	NA	5 U	NA	NA
Acrylonitrile	2	6.8	2	ug/L	NA	NA	NA	NA	NA	NA	2 U	NA	NA
Hexachloroethane	5	13	6.7	ug/L	NA	NA	NA	NA	NA	NA	5 U	NA	NA
Iodomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA
m&p-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	2 U	2 U	NA
Tetrahydrofuran	3,600	17,000	11,000	ug/L	NA	NA	NA	NA	NA	NA	90 U	NA	NA
trans-1,4-Dichloro-2-butene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA
Acetone	5,300	17,000	1,700	ug/L	NA	NA	5.5 J	8.8 J	3.1 J	19 J	50 U	50 U	2.0 J
Benzene	5	5	200	ug/L	NA	NA	0.82 J	0.89 J	0.71 J	0.77 J	1	1 U	1.0 U
Bromobenzene	47	150	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA
Bromodichloromethane	80	80	--	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1.0 U
Bromoform	80	80	--	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1.0 UJ
Bromomethane	120	380	5	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	1.0 UJ
2-Butanone	2,400	11,000	2,200	ug/L	NA	NA	1.6 J	1.7 J	0.89 J	1.8 J	25 U	25 U	25 U
n-Butylbenzene	270	870	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA
sec-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA
tert-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA
Carbon Disulfide	440	1,800	--	ug/L	NA	NA	0.15 J	5.0 U	3.5 J	5.0 U	5 U	5 U	5.0 U
Carbon Tetrachloride	5	5	38	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1.0 U
CFC-11	1,800	5,700	--	ug/L	NA	NA	1.0 U*	1.0 U	1.0 U	1.0 U	1 U	1 U	1.0 U
CFC-12	30	94	--	ug/L	NA	NA	1.0 U*	1.0 U	1.0 U	1.0 U	5 U	5 U	1.0 U
Chlorobenzene	100	100	25	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1.0 U
Chlorobromomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA
Chlorodibromomethane	80	80	--	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	1.0 U
Chloroethane	240	760	1,100	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	1.0 UJ
Chloroform	80	80	350	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1.5
Chloromethane	220	1,100	--	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	1.0 U
Cyclohexane	--	--	--	ug/L	NA	NA	1.1	1.0	1.2	0.87 J	NA	1 U	1.0 U
Cymene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	5 U	NA	NA
1,2-Dibromo-3-chloropropane	0.2	0.2	--	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	1.0 UJ
1,2-Dibromoethane	0.05	0.05	5.7	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1.0 U
Dibromomethane	18	57	--	ug/L	NA	NA	NA	NA	NA	NA	5 U	NA	NA
1,2-Dichlorobenzene	600	600	13	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1.0 U
1,3-Dichlorobenzene	12	38	28	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1.0 U
1,4-Dichlorobenzene	75	75	17	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1.0 U

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Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW1-15 10/05/07 MWW1-15-GW-100507-FP	MWW1-15 11/14/07 MWW1-15-GW-111407	MWW01-SEN03 02/19/13 MWW01-SEN03_021913	MWW01-SEN03 06/25/13 MWW01-SEN03_062513	MWW01-SEN03 12/03/13 MWW01-SEN03_20131203	MWW01-SEN03 05/18/16 MWW01-SEN03-GW-051816	MWW01-SEN03 09/21/16 MWW01-SEN03_092116	MWW01-SEN03 04/27/17 MWW01-SEN03_GW-042717	MWW01-SEN04 10/03/12 MWW01-SEN04
1,1-Dichloroethane	1,200	3,800	740	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1.0 U
1,2-Dichloroethane	5	5	360	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1.0 U
1,1-Dichloroethene	7	7	130	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1.0 U
cis-1,2-Dichloroethene	70	70	620	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1.0 U
trans-1,2-Dichloroethene	100	100	1,500	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1.0 U
Dichloromethane	5	5	1,500	ug/L	NA	NA	0.44 J	5.0 U	5.0 U	5.0 U	5 U	5 U	5.0 U
1,2-Dichloropropane	5	5	230	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1.0 U
cis-1,3-Dichloropropene	--	--	--	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1.0 U
trans-1,3-Dichloropropene	--	--	--	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1.0 U
Diethyl Ether	5	5	--	ug/L	NA	NA	NA	NA	NA	NA	10 U	NA	NA
1,4-Dioxane	7.2	37	2,800	ug/L	NA	NA	NA	NA	NA	NA	10	19	NA
Ethylbenzene	66	74	18	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1.0 U
Isopropylbenzene	590	1,900	28	ug/L	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5 U	1 U	5.0 U
Methyl acetate	--	--	--	ug/L	NA	NA	10 U	10 U	10 U	10 U	NA	10 U	10 U
Methyl N-Butyl Ketone	50	94	--	ug/L	NA	NA	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Methylcyclohexane	--	--	--	ug/L	NA	NA	0.62 J	0.77 J	1.4	1.1	NA	1 U	1.0 U
4-Methyl-2-pentanone	300	940	--	ug/L	NA	NA	2.3 J	1.4 J	0.83 J	3.1 J	50 U	50 U	50 U
Methyl tert-butyl ether	40	40	7,100	ug/L	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5.0 U
Naphthalene	590	1,900	11	ug/L	NA	NA	NA	NA	NA	NA	5 U	NA	NA
n-Propylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA
Styrene	100	100	80	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1.0 U
1,1,1,2-Tetrachloroethane	28	140	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA
1,1,1,2,2-Tetrachloroethane	3.6	18	78	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1.0 U
Tetrachloroethene	5	5	60	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1.0 U
Toluene	470	790	270	ug/L	NA	NA	0.14 J	0.19 J	0.23 J	1.0 U	1 U	1 U	1.0 U
1,2,3-Trichlorobenzene	16	51	--	ug/L	NA	NA	NA	NA	NA	NA	5 U	NA	NA
1,2,4-Trichlorobenzene	70	70	99	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	1.0 UJ
1,1,1-Trichloroethane	200	200	89	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1.0 U
1,1,2-Trichloroethane	5	5	330	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1.0 U
Trichloroethene	5	5	200	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1.0 U
1,2,3-Trichloropropane	1	1	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	160,000	170,000	32	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	NA	1 U	1.0 U
1,2,4-Trimethylbenzene	60	63	17	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA
1,3,5-Trimethylbenzene	60	72	45	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA
Vinyl Chloride	2	2	13	ug/L	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1.0 U
o-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	1 U	NA
Total Xylenes	280	280	41	ug/L	NA	NA	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	2.0 U
<b>Semivolatile Organics</b>													
1,1'-Biphenyl	--	--	--	ug/L	NA	NA	19 U	9.5 U	46 U	NA	NA	NA	3.8 U
2,2'-Oxybis(1-Chloropropane)	--	--	--	ug/L	NA	NA	19 U	9.5 U	46 U	NA	NA	NA	3.8 U
2,4,5-Trichlorophenol	180	570	--	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
2,4,6-Trichlorophenol	40	170	5	ug/L	NA	NA	77 U	38 U	190 U	NA	NA	NA	15 U
2,4-Dichlorophenol	80	330	11	ug/L	NA	NA	190 U	95 U	460 U	NA	NA	NA	38 U
2,4-Dimethylphenol	120	380	380	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
2,4-Dinitrophenol	12	38	19	ug/L	NA	NA	380 U	190 U	930 U	NA	NA	NA	76 U
2,4-Dinitrotoluene	1.1	5.5	--	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
2,6-Dinitrotoluene	--	--	--	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
2-Chloronaphthalene	470	1,500	--	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
2-Chlorophenol	32	130	18	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
2-Methylnaphthalene	24	76	19	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
2-Methylphenol	8,000	33,000	30	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
2-Nitroaniline	--	--	--	ug/L	NA	NA	380 U	190 U	930 U	NA	NA	NA	76 U
2-Nitrophenol	12	38	--	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
3,3'-Dichlorobenzidine	1.6	8.2	0.3	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U

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**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW1-15 10/05/07 MWW1-15-GW-100507-FP	MWW1-15 11/14/07 MWW1-15-GW-111407	MWW01-SEN03 02/19/13 MWW01-SEN03_021913	MWW01-SEN03 06/25/13 MWW01-SEN03_062513	MWW01-SEN03 12/03/13 MWW01-SEN03_20131203	MWW01-SEN03 05/18/16 MWW01-SEN03-GW-051816	MWW01-SEN03 09/21/16 MWW01-SEN03_092116	MWW01-SEN03 04/27/17 MWW01-SEN03_GW-042717	MWW01-SEN04 10/03/12 MWW01-SEN04
3-Nitroaniline	--	--	--	ug/L	NA	NA	380 U	190 U	930 U	NA	NA	NA	76 U
4,6-Dinitro-2-methylphenol	20	20	--	ug/L	NA	NA	380 U	190 U	930 U	NA	NA	NA	76 U
4-Bromophenyl-phenylether	--	--	--	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
4-Chloro-3-Methylphenol	400	1,700	7.4	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
4-Chloroaniline	3	9.4	--	ug/L	NA	NA	38 U	19 U	93 U	NA	NA	NA	7.6 U
4-Chlorophenyl-phenylether	--	--	--	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
4-Methylphenol	--	--	--	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
4-Nitroaniline	--	--	--	ug/L	NA	NA	380 U	190 U	930 U	NA	NA	NA	76 U
4-Nitrophenol	--	--	--	ug/L	NA	NA	380 U	190 U	930 U	NA	NA	NA	76 U
Acenaphthene	360	1,100	38	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
Acenaphthylene	360	1,100	--	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
Acetophenone	3,200	13,000	--	ug/L	NA	NA	19 U	9.5 U	46 U	NA	NA	NA	3.8 U
Anthracene	43	43	--	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
Atrazine	3	3	7.3	ug/L	NA	NA	19 U	9.5 U	46 U	NA	NA	NA	3.8 U
Benzaldehyde	--	--	--	ug/L	NA	NA	19 U*	9.5 U	46 U	NA	NA	NA	3.8 U
Benzo(a)anthracene	2.3	9.4	--	ug/L	NA	NA	19 U	9.5 U	46 U	NA	NA	NA	3.8 U
Benzo(a)pyrene	0.2	0.2	--	ug/L	NA	NA	19 U	9.5 U	46 U	NA	NA	NA	3.8 U
Benzo(b)fluoranthene	1.5	1.5	--	ug/L	NA	NA	19 U	9.5 U	46 U	NA	NA	NA	3.8 U
Benzo(g,h,i)perylene	1	1	--	ug/L	NA	NA	19 U	9.5 U	46 U	NA	NA	NA	3.8 U
Benzo(k)fluoranthene	1	1	--	ug/L	NA	NA	19 U	9.5 U	46 U	NA	NA	NA	3.8 U
bis(2-Chloroethoxy)methane	--	--	--	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
bis(2-Chloroethyl)ether	1	3.3	1	ug/L	NA	NA	19 U	9.5 U	46 U	NA	NA	NA	3.8 U
bis(2-Ethylhexyl)phthalate	6	6	14	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
Butylbenzylphthalate	80	330	67	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
Caprolactam	2,000	9,400	--	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
Carbazole	10	38	10	ug/L	NA	NA	190 U	95 U	460 U	NA	NA	NA	38 U
Chrysene	2	2	--	ug/L	NA	NA	19 U	9.5 U	46 U	NA	NA	NA	3.8 U
Dibenzo(a,h)anthracene	2	2.5	--	ug/L	NA	NA	38 U	19 U	93 U	NA	NA	NA	7.6 U
Dibenzofuran	5.9	19	4	ug/L	NA	NA	77 U	38 U	190 U	NA	NA	NA	15 U
Diethylphthalate	4,700	15,000	110	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
Dimethylphthalate	590	1,900	--	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
Di-n-Butylphthalate	27	110	9.7	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
Di-n-Octylphthalate	22	22	--	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
Fluoranthene	240	260	1.6	ug/L	NA	NA	19 U	9.5 U	46 U	NA	NA	NA	3.8 U
Fluorene	240	760	12	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
Hexachlorobenzene	1	1	0.2	ug/L	NA	NA	3.8 U	1.9 U	9.3 U	NA	NA	NA	0.76 U
Hexachlorocyclopentadiene	50	50	--	ug/L	NA	NA	96 U*	48 U	230 U	NA	NA	NA	19 U
Hexachloroethane	5	13	6.7	ug/L	NA	NA	96 U	48 U	230 UJ	NA	NA	NA	19 U
Indeno(1,2,3-cd)pyrene	2	2	--	ug/L	NA	NA	38 U	19 U	93 U	NA	NA	NA	7.6 U
Isophorone	760	3,800	1,300	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
Nitrobenzene	12	38	180	ug/L	NA	NA	58 U	29 U	140 U	NA	NA	NA	11 U
N-Nitroso-di-n-propylamine	5	5	--	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
N-Nitrosodiphenylamine	150	750	--	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
Pentachlorophenol	1	1	--	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
Phenanthrene	180	570	2	ug/L	NA	NA	38 U	19 U	93 U	NA	NA	NA	0.53 J
Phenol	1,200	5,700	450	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
Pyrene	140	140	--	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
Hexachloro-1,3-Butadiene	5.9	19	0.053	ug/L	NA	NA	19 U	9.5 U	46 UJ	NA	NA	NA	3.8 U
Naphthalene	590	1,900	11	ug/L	NA	NA	96 U	48 U	230 U	NA	NA	NA	19 U
<b>Inorganics</b>													
Antimony	6	6	130	ug/L	NA	NA	1.7 J	0.43 J	NA	NA	NA	NA	NA
Arsenic	10	10	10	ug/L	NA	NA	3.2	2.9 B	2.7 J	NA	NA	NA	1.9 J
Barium	2,000	2,000	670	ug/L	NA	NA	57 B	61 B	65 J	NA	NA	NA	95 B
Beryllium	4	4	6.7	ug/L	NA	NA	0.15 J	0.12 J	NA	NA	NA	NA	NA

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**RACER Trust**  
**Pontiac North Campus**  
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Cadmium	5	5	2.5	ug/L	NA	NA	0.50 U	0.17 J	0.097 J	NA	NA	NA	0.50 U
Calcium	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	100	11	ug/L	NA	NA	23	12 B	8.5 J	NA	NA	NA	5.3
Cobalt	20	20	100	ug/L	NA	NA	2.3 B	2.3 B	NA	NA	NA	NA	NA
Copper	30	95	13	ug/L	NA	NA	18	13 B	NA	NA	NA	NA	NA
Cyanide (total)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	300	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1	1	14	ug/L	NA	NA	6.4 B	7.5 B	3.4 J	NA	NA	NA	12
Magnesium	330,000	1,000,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	50	1,300	ug/L	NA	NA	160 B	130 B	NA	NA	NA	NA	NA
Mercury	2	2	0.0013	ug/L	NA	NA	0.20 U	0.20 U	0.20 U	NA	NA	NA	0.20 U
Nickel	36	110	73	ug/L	NA	NA	NA	12 B	NA	NA	NA	NA	NA
Selenium	50	50	5	ug/L	NA	NA	0.89 J	1.0 J	2.0 U	NA	NA	NA	2.0 U
Silver	5.9	19	0.2	ug/L	NA	NA	0.20 U	0.013 JB	0.010 J	NA	NA	NA	0.20 U
Thallium	2	2	3.7	ug/L	NA	NA	0.019 J	1.0 U	NA	NA	NA	NA	NA
Vanadium	4	4	27	ug/L	NA	NA	3.9 J	2.4 JB	NA	NA	NA	NA	NA
Zinc	1,800	5,000	170	ug/L	NA	NA	25	16 B	NA	NA	NA	NA	NA
<b>Inorganics-Filtered</b>													
Antimony (dissolved)	6	6	130	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (dissolved)	10	10	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (dissolved)	2,000	2,000	670	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (dissolved)	4	4	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (dissolved)	5	5	2.5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (dissolved)	--	--	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (dissolved)	20	20	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (dissolved)	30	95	13	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (dissolved)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (dissolved)	1	1	14	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (dissolved)	50	50	1,300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (dissolved)	--	--	0.0013	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (dissolved)	36	110	73	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (dissolved)	50	50	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (dissolved)	5.9	19	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (dissolved)	2	2	3.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (dissolved)	4	4	27	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (dissolved)	1,800	5,000	170	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous</b>													
Alkalinity, total (as CaCO3)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	--	--	--	none	NA	7.5 J	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	500,000	500,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Field</b>													
Conductivity, field	--	--	--	mS/cm	NA	1.302	NA	NA	NA	NA	NA	NA	NA
Conductivity, field	--	--	--	umhos/cm	1.275	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved oxygen (DO), field	--	--	--	ug/L	100	170	NA	NA	NA	NA	NA	NA	NA
Oxidation reduction potential (ORP), field	--	--	--	millivolts	-164.0	20	NA	NA	NA	NA	NA	NA	NA
Temperature, ambient	--	--	--	deg f	85	50	NA	NA	NA	NA	NA	NA	NA
Temperature, field	--	--	--	deg c	21.25	16.28	NA	NA	NA	NA	NA	NA	NA
Turbidity (field)	--	--	--	NTU	3.04	4	NA	NA	NA	NA	NA	NA	NA
<b>Dioxins/Furans</b>													
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	--	pg/L	NA	NA	3.1 JBq	96 U	NA	NA	NA	NA	NA
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	--	--	--	pg/L	NA	NA	170 B	80 Jq	NA	NA	NA	NA	NA

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1,2,3,4,6,7,8-HpCDD	--	--	--	pg/L	NA	NA	8.6 JB	4.1 Jq	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	--	--	--	pg/L	NA	NA	2.4 JBq	2.0 J	NA	NA	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	--	--	--	pg/L	NA	NA	50 U	48 U	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDD	--	--	--	pg/L	NA	NA	50 U	48 U	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDF	--	--	--	pg/L	NA	NA	50 U	48 U	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDD	--	--	--	pg/L	NA	NA	0.68 JBq	48 U	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDF	--	--	--	pg/L	NA	NA	50 U	48 U	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDD	--	--	--	pg/L	NA	NA	0.98 JB	48 U	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDF	--	--	--	pg/L	NA	NA	50 U	48 U	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDD	--	--	--	pg/L	NA	NA	50 U	48 U	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDF	--	--	--	pg/L	NA	NA	50 U	48 U	NA	NA	NA	NA	NA
2,3,4,6,7,8-HxCDF	--	--	--	pg/L	NA	NA	50 U	48 U	NA	NA	NA	NA	NA
2,3,4,7,8-PeCDF	--	--	--	pg/L	NA	NA	50 U	48 U	NA	NA	NA	NA	NA
2,3,7,8-TCDD	<b>30</b>	<b>30</b>	<b>10</b>	pg/L	NA	NA	9.9 U	9.6 U	NA	NA	NA	NA	NA
2,3,7,8-TCDF	--	--	--	pg/L	NA	NA	9.9 U	9.6 U	NA	NA	NA	NA	NA
Total heptachlorodibenzofuran (HpCDF)	--	--	--	pg/L	NA	NA	6.6 JBq	4.2 Jq	NA	NA	NA	NA	NA
Total heptachlorodibenzo-p-dioxin (HpCDD)	--	--	--	pg/L	NA	NA	21 JBq	16 Jq	NA	NA	NA	NA	NA
Total hexachlorodibenzofuran (HxCDF)	--	--	--	pg/L	NA	NA	4.1 JBq	48 U	NA	NA	NA	NA	NA
Total hexachlorodibenzo-p-dioxin (HxCDD)	--	--	--	pg/L	NA	NA	9.8 JBq	2.9 J	NA	NA	NA	NA	NA
Total pentachlorodibenzofuran (PeCDF)	--	--	--	pg/L	NA	NA	50 U	48 U	NA	NA	NA	NA	NA
Total pentachlorodibenzo-p-dioxin (PeCDD)	--	--	--	pg/L	NA	NA	50 U	48 U	NA	NA	NA	NA	NA
Total TCDF	--	--	--	pg/L	NA	NA	NA	9.6 U	NA	NA	NA	NA	NA
Total tetrachlorodibenzofuran (TCDF)	--	--	--	pg/L	NA	NA	9.9 U	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzo-p-dioxin (TCDD)	--	--	--	pg/L	NA	NA	1.0 J	9.6 U	NA	NA	NA	NA	NA

Table 1  
 Monitoring Well Chemical Concentrations  
 RACER Trust  
 Pontiac North Campus  
 Pontiac, MI

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW01-SEN04 02/19/13 MWW01-SEN04_021913	MWW01-SEN04 06/25/13 MWW01-SEN04_062513	MWW01-SEN04 12/03/13 MWW01-SEN04_20131203	MWW01-SEN04 05/18/16 MWW01-SEN04-GW-051816	MWW01-SEN04 09/20/16 MWW01-SEN04_092016	MWW01-SEN05 10/05/12 MWW01-SEN05_100512	MWW01-SEN05 02/20/13 MWW01-SEN05_022013	MWW01-SEN05 06/26/13 MWW01-SEN05_062613	MWW01-SEN05 12/03/13 MWW01-SEN05_20131203
<b>PCBs</b>													
Aroclor-1016	0.5	0.5	0.2	ug/L	0.095 U	0.096 U	0.48 U [R]	NA	NA	0.095 U	0.095 UH	0.095 U	0.096 U
Aroclor-1221	0.5	0.5	0.2	ug/L	0.095 U	0.096 U	0.48 U [R]	NA	NA	0.095 U	0.095 UH	0.095 U	0.096 U
Aroclor-1232	0.5	0.5	0.2	ug/L	0.095 U	0.096 U	0.48 U [R]	NA	NA	0.095 U	0.095 UH	0.095 U	0.096 U
Aroclor-1242	0.5	0.5	0.2	ug/L	0.095 U	0.096 U	0.48 U [R]	NA	NA	0.095 U	0.095 UH	0.095 U	0.096 U
Aroclor-1248	0.5	0.5	0.2	ug/L	0.59	0.32	6.8 J [15 J]	NA	NA	0.095 U	0.095 UH	0.095 U	0.096 U
Aroclor-1254	0.5	0.5	0.2	ug/L	0.095 U	0.096 U	0.48 U [R]	NA	NA	0.095 U	0.095 UH	0.095 U	0.096 U
Aroclor-1260	0.5	0.5	0.2	ug/L	0.095 U	0.096 U	0.48 U [R]	NA	NA	0.095 U	0.095 UH	0.095 U	0.096 U
<b>PCBs-Filtered</b>													
Aroclor-1016 (PCB-1016) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Volatile Organics</b>													
1,2,3-Trimethylbenzene	60	130	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA
2-Methylnaphthalene	24	76	19	ug/L	NA	NA	NA	NA	5 U	NA	NA	NA	NA
Acrylonitrile	2	6.8	2	ug/L	NA	NA	NA	NA	2 U	NA	NA	NA	NA
Hexachloroethane	5	13	6.7	ug/L	NA	NA	NA	NA	5 U	NA	NA	NA	NA
Iodomethane	--	--	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA
m&p-Xylene	--	--	--	ug/L	NA	NA	NA	NA	2 U	NA	NA	NA	NA
Tetrahydrofuran	3,600	17,000	11,000	ug/L	NA	NA	NA	NA	90 U	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	--	--	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA
Acetone	5,300	17,000	1,700	ug/L	1.5 J	7.4 J	25 U [25 U]	25	50 U	3.5 J	3.0 JB	1.8 J	1.6 J
Benzene	5	5	200	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	1 U	6.1	6.6	4.2	5.7
Bromobenzene	47	150	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA
Bromodichloromethane	80	80	--	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	80	80	--	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	120	380	5	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	2,400	11,000	2,200	ug/L	25 U	25 U	25 U [25 U]	0.57 J	25 U	0.60 J	0.59 J	25 U	25 U
n-Butylbenzene	270	870	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA
sec-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA
tert-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA
Carbon Disulfide	440	1,800	--	ug/L	5.0 U	5.0 U	9.9 [2.2 J]	5.0 U	5 U	5.0 U	5.0 U	5.0 U	0.75 J
Carbon Tetrachloride	5	5	38	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U
CFC-11	1,800	5,700	--	ug/L	1.0 U*	1.0 U	1.0 U [1 U]	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U
CFC-12	30	94	--	ug/L	1.0 U*	1.0 U	1.0 U [1 U]	1.0 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	100	100	25	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobromomethane	--	--	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA
Chlorodibromomethane	80	80	--	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	240	760	1,100	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	80	80	350	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	220	1,100	--	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	--	--	--	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	NA	1.1	1.1	1.1	1.1
Cymene	--	--	--	ug/L	NA	NA	NA	NA	5 U	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.2	0.2	--	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	0.05	0.05	5.7	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromomethane	18	57	--	ug/L	NA	NA	NA	NA	5 U	NA	NA	NA	NA
1,2-Dichlorobenzene	600	600	13	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	1 U	0.29 J	0.36 J	0.38 J	0.29 J
1,3-Dichlorobenzene	12	38	28	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	75	75	17	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U

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**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW01-SEN04 02/19/13 <small>MWW01-SEN04_021913</small>	MWW01-SEN04 06/25/13 <small>MWW01-SEN04_062513</small>	MWW01-SEN04 12/03/13 <small>MWW10-SEN04_20131203</small>	MWW01-SEN04 05/18/16 <small>MWW10-SEN04-GW-051816</small>	MWW01-SEN04 09/20/16 <small>MWW10-SEN04_092016</small>	MWW01-SEN05 10/05/12 <small>MWW01-SEN_05_100512</small>	MWW01-SEN05 02/20/13 <small>MWW01-SEN05_022013</small>	MWW01-SEN05 06/26/13 <small>MWW01-SEN05_062613</small>	MWW01-SEN05 12/03/13 <small>MWW10-SEN05_20131203</small>
1,1-Dichloroethane	1,200	3,800	740	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	5	5	360	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	7	7	130	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	70	70	620	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	100	100	1,500	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichloromethane	5	5	1,500	ug/L	5.0 U	5.0 U	5.0 U [5 U]	5.0 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	5	5	230	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	--	--	--	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	--	--	--	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U
Diethyl Ether	5	5	--	ug/L	NA	NA	NA	NA	10 U	NA	NA	NA	NA
1,4-Dioxane	7.2	37	2,800	ug/L	NA	NA	NA	NA	3 U	NA	NA	NA	NA
Ethylbenzene	66	74	18	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	1 U	5.5	5.0	3.9	3.5
Isopropylbenzene	590	1,900	28	ug/L	5.0 U	5.0 U	5.0 U [5 U]	5.0 U	5 U	1.1 J	1.2 J	1.1 J	0.89 J
Methyl acetate	--	--	--	ug/L	10 U	10 U	10 U [10 U]	10 U	NA	10 U	10 U	10 U	10 U
Methyl N-Butyl Ketone	50	94	--	ug/L	50 U	50 U	50 U [50 U]	50 U	50 U	50 U	50 U	50 U	50 U
Methylcyclohexane	--	--	--	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	NA	2.9	2.8	3.4	2.5
4-Methyl-2-pentanone	300	940	--	ug/L	50 U	50 U	50 U [50 U]	2.9 J	50 U	0.45 J	0.39 J	50 U	50 U
Methyl tert-butyl ether	40	40	7,100	ug/L	5.0 U	5.0 U	5.0 U [5 U]	5.0 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	590	1,900	11	ug/L	NA	NA	NA	NA	5 U	NA	NA	NA	NA
n-Propylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA
Styrene	100	100	80	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1,2-Tetrachloroethane	28	140	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA
1,1,1,2,2-Tetrachloroethane	3.6	18	78	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	5	60	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	470	790	270	ug/L	1.0 U	0.27 J	1.0 U [1 U]	1.0 U	1 U	3.7	2.2	1.1	1.2
1,2,3-Trichlorobenzene	16	51	--	ug/L	NA	NA	NA	NA	5 U	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	70	99	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	200	200	89	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	5	5	330	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	5	200	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichloropropane	1	1	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	160,000	170,000	32	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	60	63	17	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA
1,3,5-Trimethylbenzene	60	72	45	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA
Vinyl Chloride	2	2	13	ug/L	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	--	--	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA
Total Xylenes	280	280	41	ug/L	2.0 U	2.0 U	2.0 U [2 U]	2.0 U	NA	33	27	15	13
<b>Semivolatile Organics</b>													
1,1'-Biphenyl	--	--	--	ug/L	9.5 U	3.8 U	10 U [9.6 U]	NA	NA	2.4 U	3.8 U	0.82 J	0.93 J
2,2'-Oxybis(1-Chloropropane)	--	--	--	ug/L	9.5 U	3.8 U	10 U [9.6 U]	NA	NA	2.4 U	3.8 U	0.95 U	9.6 U
2,4,5-Trichlorophenol	180	570	--	ug/L	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U
2,4,6-Trichlorophenol	40	170	5	ug/L	38 U	15 U	40 U [38 U]	NA	NA	9.5 U	15 U	3.8 U	38 U
2,4-Dichlorophenol	80	330	11	ug/L	95 U	38 U	100 U [96 U]	NA	NA	24 U	38 U	9.5 U	96 U
2,4-Dimethylphenol	120	380	380	ug/L	48 U	19 U	50 U [48 U]	NA	NA	2.0 J	19 U	1.3 J	3.1 J
2,4-Dinitrophenol	12	38	19	ug/L	190 U	76 U	200 U [190 U]	NA	NA	48 U	76 U	19 U	190 U
2,4-Dinitrotoluene	1.1	5.5	--	ug/L	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U
2,6-Dinitrotoluene	--	--	--	ug/L	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U
2-Chloronaphthalene	470	1,500	--	ug/L	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U
2-Chlorophenol	32	130	18	ug/L	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U
2-Methylnaphthalene	24	76	19	ug/L	48 U	19 U	50 U [48 U]	NA	NA	4.2 J	0.42 J	2.2 J	2.9 J
2-Methylphenol	8,000	33,000	30	ug/L	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	0.37 J
2-Nitroaniline	--	--	--	ug/L	190 U	76 U	200 U [190 U]	NA	NA	48 U	76 U	19 U	190 U
2-Nitrophenol	12	38	--	ug/L	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U
3,3'-Dichlorobenzidine	1.6	8.2	0.3	ug/L	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U

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Pontiac, MI

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW01-SEN04 02/19/13 MWW01-SEN04_021913	MWW01-SEN04 06/25/13 MWW01-SEN04_062513	MWW01-SEN04 12/03/13 MWW10-SEN04_20131203	MWW01-SEN04 05/18/16 MWW10-SEN04-GW-051816	MWW01-SEN04 09/20/16 MWW10-SEN04_092016	MWW01-SEN05 10/05/12 MWW01-SEN_05_100512	MWW01-SEN05 02/20/13 MWW01-SEN05_022013	MWW01-SEN05 06/26/13 MWW01-SEN05_062613	MWW01-SEN05 12/03/13 MWW10-SEN05_20131203
3-Nitroaniline	--	--	--	ug/L	190 U	76 U	200 U [190 U]	NA	NA	48 U	76 U	19 U	190 U
4,6-Dinitro-2-methylphenol	20	20	--	ug/L	190 U	76 U	200 U [190 U]	NA	NA	48 U	76 U	19 U	190 U
4-Bromophenyl-phenylether	--	--	--	ug/L	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U
4-Chloro-3-Methylphenol	400	1,700	7.4	ug/L	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U
4-Chloroaniline	3	9.4	--	ug/L	19 U	7.6 U	20 U [19 U]	NA	NA	4.8 U	7.6 U	1.9 U	19 U
4-Chlorophenyl-phenylether	--	--	--	ug/L	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U
4-Methylphenol	--	--	--	ug/L	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U
4-Nitroaniline	--	--	--	ug/L	190 U	76 U	200 U [190 U]	NA	NA	48 U	76 U	19 U	190 U
4-Nitrophenol	--	--	--	ug/L	190 U	76 U	200 U [190 U]	NA	NA	48 U	76 U	19 U	190 U
Acenaphthene	360	1,100	38	ug/L	48 U	19 U	50 U [48 U]	NA	NA	0.96 J	19 U	0.92 J	0.88 J
Acenaphthylene	360	1,100	--	ug/L	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	0.28 J	48 U
Acetophenone	3,200	13,000	--	ug/L	9.5 U	3.8 U	10 U [9.6 U]	NA	NA	2.4 U	3.8 U	0.95 U	9.6 U
Anthracene	43	43	--	ug/L	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	0.44 J	48 U
Atrazine	3	3	7.3	ug/L	9.5 U	3.8 U	10 U [9.6 U]	NA	NA	2.4 U	3.8 U*	0.95 U	9.6 U
Benzaldehyde	--	--	--	ug/L	9.5 U*	3.8 U	10 U [9.6 U]	NA	NA	2.4 U	3.8 U	0.95 U	9.6 U
Benzo(a)anthracene	2.3	9.4	--	ug/L	9.5 U	3.8 U	10 U [9.6 U]	NA	NA	2.4 U	3.8 U	0.95 U	9.6 U
Benzo(a)pyrene	0.2	0.2	--	ug/L	9.5 U	3.8 U	10 U [9.6 U]	NA	NA	2.4 U	3.8 U	0.95 U	9.6 U
Benzo(b)fluoranthene	1.5	1.5	--	ug/L	9.5 U	3.8 U	10 U [9.6 U]	NA	NA	2.4 U	3.8 U	0.95 U	9.6 U
Benzo(g,h,i)perylene	1	1	--	ug/L	9.5 U	3.8 U	10 U [9.6 U]	NA	NA	2.4 U	3.8 U	0.95 U	9.6 U
Benzo(k)fluoranthene	1	1	--	ug/L	9.5 U	3.8 U	10 U [9.6 U]	NA	NA	2.4 U	3.8 U	0.95 U	9.6 U
bis(2-Chloroethoxy)methane	--	--	--	ug/L	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U
bis(2-Chloroethyl)ether	1	3.3	1	ug/L	9.5 U	3.8 U	10 U [9.6 U]	NA	NA	2.4 U	3.8 U	0.95 U	9.6 U
bis(2-Ethylhexyl)phthalate	6	6	14	ug/L	48 U	19 U	2.2 J [13 J]	NA	NA	12 U	19 U	4.8 U	48 U
Butylbenzylphthalate	80	330	67	ug/L	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U
Caprolactam	2,000	9,400	--	ug/L	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U
Carbazole	10	38	10	ug/L	95 U	38 U	100 U [96 U]	NA	NA	1.5 J	38 U	1.6 J	1.9 J
Chrysene	2	2	--	ug/L	9.5 U	3.8 U	10 U [9.6 U]	NA	NA	2.4 U	3.8 U	0.95 U	9.6 U
Dibenzo(a,h)anthracene	2	2.5	--	ug/L	19 U	7.6 U	20 U [19 U]	NA	NA	4.8 U	7.6 U*	1.9 U	19 U
Dibenzofuran	5.9	19	4	ug/L	38 U	15 U	40 U [38 U]	NA	NA	0.53 J	15 U	0.58 J	0.52 J
Diethylphthalate	4,700	15,000	110	ug/L	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U
Dimethylphthalate	590	1,900	--	ug/L	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U
Di-n-Butylphthalate	27	110	9.7	ug/L	48 U	19 U	50 U [48 UB]	NA	NA	5.7 J	3.2 J	1.8 JB	48 UB
Di-n-Octylphthalate	22	22	--	ug/L	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U
Fluoranthene	240	260	1.6	ug/L	9.5 U	3.8 U	10 U [9.6 U]	NA	NA	2.4 U	3.8 U	0.28 J	9.6 U
Fluorene	240	760	12	ug/L	48 U	19 U	50 U [48 U]	NA	NA	1.5 J	1.2 J	1.8 J	1.7 J
Hexachlorobenzene	1	1	0.2	ug/L	1.9 U	0.76 U	2.0 U [1.9 U]	NA	NA	0.48 U	0.76 U	0.19 U	1.9 U
Hexachlorocyclopentadiene	50	50	--	ug/L	48 U*	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U
Hexachloroethane	5	13	6.7	ug/L	48 U	19 U	50 UJ [48 UJ]	NA	NA	12 U	19 U	4.8 U	48 UJ
Indeno(1,2,3-cd)pyrene	2	2	--	ug/L	19 U	7.6 U	20 U [19 U]	NA	NA	4.8 U	7.6 U	1.9 U	19 U
Isophorone	760	3,800	1,300	ug/L	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U
Nitrobenzene	12	38	180	ug/L	29 U	11 U	30 U [29 U]	NA	NA	7.1 U	11 U	2.9 U	29 U
N-Nitroso-di-n-propylamine	5	5	--	ug/L	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U
N-Nitrosodiphenylamine	150	750	--	ug/L	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U
Pentachlorophenol	1	1	--	ug/L	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U
Phenanthrene	180	570	2	ug/L	19 U	7.6 U	20 U [19 U]	NA	NA	1.8 J	7.6 U	1.7 J	0.53 J
Phenol	1,200	5,700	450	ug/L	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U
Pyrene	140	140	--	ug/L	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U
Hexachloro-1,3-Butadiene	5.9	19	0.053	ug/L	9.5 U	3.8 U	10 UJ [9.6 UJ]	NA	NA	2.4 U	3.8 U	0.95 U	9.6 UJ
Naphthalene	590	1,900	11	ug/L	48 U	19 U	50 U [48 U]	NA	NA	7.8 J	1.8 J	6.6	7.4 J
<b>Inorganics</b>													
Antimony	6	6	130	ug/L	0.13 J	2.0 U	NA	NA	NA	NA	0.66 J	0.65 J	NA
Arsenic	10	10	10	ug/L	3.7	6.7 B	5.9 J [15 J]	NA	NA	1.5 J	0.71 J	1.3 JB	1.3 J
Barium	2,000	2,000	670	ug/L	120 B	160 B	160 J [370 J]	NA	NA	1,800 B	2,100 B	2,200 B	2,900 J
Beryllium	4	4	6.7	ug/L	1.0 U	0.055 J	NA	NA	NA	NA	1.0 U	1.0 U	NA

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**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW01-SEN04 02/19/13 <small>MWW01-SEN04_021913</small>	MWW01-SEN04 06/25/13 <small>MWW01-SEN04_062513</small>	MWW01-SEN04 12/03/13 <small>MWW10-SEN04_20131203</small>	MWW01-SEN04 05/18/16 <small>MWW10-SEN04-GW-051816</small>	MWW01-SEN04 09/20/16 <small>MWW10-SEN04_092016</small>	MWW01-SEN05 10/05/12 <small>MWW01-SEN_05_100512</small>	MWW01-SEN05 02/20/13 <small>MWW01-SEN05_022013</small>	MWW01-SEN05 06/26/13 <small>MWW01-SEN05_062613</small>	MWW01-SEN05 12/03/13 <small>MWW10-SEN05_20131203</small>
Cadmium	5	5	2.5	ug/L	0.50 U	0.50 U	0.046 J [0.52]	NA	NA	0.50 U	0.50 U	0.069 J	0.057 J
Calcium	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	100	11	ug/L	2.2	5.3 B	10 J [140 J]	NA	NA	0.76 J	2.0 U	2.0 U	0.15 J
Cobalt	20	20	100	ug/L	0.75 JB	1.0 B	NA	NA	NA	NA	0.53 JB	0.36 JB	NA
Copper	30	95	13	ug/L	1.7 J	3.5 B	NA	NA	NA	NA	0.80 J	1.7 JB	NA
Cyanide (total)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	300	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1	1	14	ug/L	3.9 B	11 B	21 J [460 J]	NA	NA	7.0	1.4 B	4.2 B	1.4 J
Magnesium	330,000	1,000,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	50	1,300	ug/L	400 B	400 B	NA	NA	NA	72 B	62 B	NA	NA
Mercury	2	2	0.0013	ug/L	0.20 U	0.20 U	0.20 U [0.22]	NA	NA	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	36	110	73	ug/L	3.4	7.8 B	NA	NA	NA	4.8	2.0 B	2.0 B	NA
Selenium	50	50	5	ug/L	2.0 U	1.0 J	2.0 U [1.8 J]	NA	NA	2.0 U	0.76 J	1.0 J	2.0 U
Silver	5.9	19	0.2	ug/L	0.20 U	0.20 U	0.20 U [0.11 J]	NA	NA	0.20 U	0.20 U	0.20 U	0.20 U
Thallium	2	2	3.7	ug/L	1.0 U	1.0 U	NA	NA	NA	1.0 U	1.0 U	NA	NA
Vanadium	4	4	27	ug/L	0.48 J	0.78 JB	NA	NA	NA	4.0 U	4.0 U	NA	NA
Zinc	1,800	5,000	170	ug/L	2.2 J	9.5 JB	NA	NA	NA	4.3 J	14 B	NA	NA
<b>Inorganics-Filtered</b>													
Antimony (dissolved)	6	6	130	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (dissolved)	10	10	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (dissolved)	2,000	2,000	670	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (dissolved)	4	4	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (dissolved)	5	5	2.5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (dissolved)	--	--	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (dissolved)	20	20	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (dissolved)	30	95	13	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (dissolved)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (dissolved)	1	1	14	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (dissolved)	50	50	1,300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (dissolved)	--	--	0.0013	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (dissolved)	36	110	73	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (dissolved)	50	50	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (dissolved)	5.9	19	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (dissolved)	2	2	3.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (dissolved)	4	4	27	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (dissolved)	1,800	5,000	170	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous</b>													
Alkalinity, total (as CaCO3)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	--	--	--	none	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	500,000	500,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Field</b>													
Conductivity, field	--	--	--	mS/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity, field	--	--	--	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved oxygen (DO), field	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation reduction potential (ORP), field	--	--	--	millivolts	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, ambient	--	--	--	deg f	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, field	--	--	--	deg c	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity (field)	--	--	--	NTU	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dioxins/Furans</b>													
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	--	pg/L	5.8 JB	4.0 Jq	NA	NA	NA	NA	6.8 JB	7.3 J	NA
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	--	--	--	pg/L	19 JBq	25 J	NA	NA	NA	NA	7.4 JB	18 J	NA

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1,2,3,4,6,7,8-HpCDD	--	--	--	pg/L	3.6 JBq	3.7 Jq	NA	NA	NA	NA	2.1 JB	48 U	NA
1,2,3,4,6,7,8-HpCDF	--	--	--	pg/L	8.0 JB	9.3 J	NA	NA	NA	NA	2.1 JB	7.1 J	NA
1,2,3,4,7,8,9-HpCDF	--	--	--	pg/L	50 U	48 U	NA	NA	NA	NA	1.5 JB	48 U	NA
1,2,3,4,7,8-HxCDD	--	--	--	pg/L	0.45 JBq	48 U	NA	NA	NA	NA	51 U	48 U	NA
1,2,3,4,7,8-HxCDF	--	--	--	pg/L	4.5 JB	3.3 Jq	NA	NA	NA	NA	1.1 J	48 U	NA
1,2,3,6,7,8-HxCDD	--	--	--	pg/L	1.0 JB	48 U	NA	NA	NA	NA	51 U	48 U	NA
1,2,3,6,7,8-HxCDF	--	--	--	pg/L	1.9 JB	48 U	NA	NA	NA	NA	1.1 J	48 U	NA
1,2,3,7,8,9-HxCDD	--	--	--	pg/L	0.96 JB	48 U	NA	NA	NA	NA	51 U	48 U	NA
1,2,3,7,8,9-HxCDF	--	--	--	pg/L	50 U	48 U	NA	NA	NA	NA	1.5 J	48 U	NA
1,2,3,7,8-PeCDD	--	--	--	pg/L	50 U	48 U	NA	NA	NA	NA	51 U	48 U	NA
1,2,3,7,8-PeCDF	--	--	--	pg/L	50 U	48 U	NA	NA	NA	NA	51 U	48 U	NA
2,3,4,6,7,8-HxCDF	--	--	--	pg/L	50 U	48 U	NA	NA	NA	NA	51 U	48 U	NA
2,3,4,7,8-PeCDF	--	--	--	pg/L	50 U	48 U	NA	NA	NA	NA	51 U	48 U	NA
2,3,7,8-TCDD	<b>30</b>	<b>30</b>	<b>10</b>	pg/L	10 U	9.6 U	NA	NA	NA	NA	10 U	9.5 U	NA
2,3,7,8-TCDF	--	--	--	pg/L	2.3 Jq	9.6 U	NA	NA	NA	NA	10 U	9.5 U	NA
Total heptachlorodibenzofuran (HpCDF)	--	--	--	pg/L	9.4 JBq	9.3 J	NA	NA	NA	NA	3.7 JB	25 J	NA
Total heptachlorodibenzo-p-dioxin (HpCDD)	--	--	--	pg/L	10 JBq	9.5 Jq	NA	NA	NA	NA	3.4 JB	6.8 Jq	NA
Total hexachlorodibenzofuran (HxCDF)	--	--	--	pg/L	9.7 JB	6.5 Jq	NA	NA	NA	NA	3.7 JB	6.8 Jq	NA
Total hexachlorodibenzo-p-dioxin (HxCDD)	--	--	--	pg/L	6.2 JBq	48 U	NA	NA	NA	NA	51 U	48 U	NA
Total pentachlorodibenzofuran (PeCDF)	--	--	--	pg/L	3.7 JB	48 U	NA	NA	NA	NA	51 U	48 U	NA
Total pentachlorodibenzo-p-dioxin (PeCDD)	--	--	--	pg/L	50 U	48 U	NA	NA	NA	NA	51 U	48 U	NA
Total TCDF	--	--	--	pg/L	NA	9.6 U	NA	NA	NA	NA	NA	9.5 U	NA
Total tetrachlorodibenzofuran (TCDF)	--	--	--	pg/L	4.8 Jq	NA	NA	NA	NA	NA	10 U	NA	NA
Total tetrachlorodibenzo-p-dioxin (TCDD)	--	--	--	pg/L	10 U	9.6 U	NA	NA	NA	NA	10 U	9.5 U	NA

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Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW5-01 09/14/01 MWW5-01-GW(14-24)-N	MWW5-01 09/14/01 MWW5-01-GW14-24-N	MWW5-01 01/09/02 MWW5-01-GW	MWW5-01 01/09/02 MWW5-01-GWDL	MWW5-01 11/13/06 MWW5-01-WG-111306	MWW5-01 05/19/16 MWW5-01-GW-051916	MWW5-01 09/20/16 MWW5-01_092016	MWW5-01 05/25/17 MWW5-01_GW-052517	TW01-03 10/04/12 TW-01-03_100412
<b>PCBs</b>													
Aroclor-1016	0.5	0.5	0.2	ug/L	0.054 U	NA	0.20 U	NA	0.20 U	NA	NA	NA	R
Aroclor-1221	0.5	0.5	0.2	ug/L	0.11 U	NA	0.20 U	NA	0.20 U	NA	NA	NA	R
Aroclor-1232	0.5	0.5	0.2	ug/L	0.056 U	NA	0.40 U	NA	0.40 U	NA	NA	NA	R
Aroclor-1242	0.5	0.5	0.2	ug/L	0.075 U	NA	0.20 U	NA	0.20 U	NA	NA	NA	R
Aroclor-1248	0.5	0.5	0.2	ug/L	0.061 U	NA	0.20 U	NA	0.20 U	NA	NA	NA	R
Aroclor-1254	0.5	0.5	0.2	ug/L	0.082 U	NA	0.20 U	NA	0.20 U	NA	NA	NA	R
Aroclor-1260	0.5	0.5	0.2	ug/L	0.044 U	NA	0.20 U	NA	0.20 U	NA	NA	NA	R
<b>PCBs-Filtered</b>													
Aroclor-1016 (PCB-1016) (dissolved)	0.5	0.5	0.2	ug/L	NA	0.054 U	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221) (dissolved)	0.5	0.5	0.2	ug/L	NA	0.11 U	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232) (dissolved)	0.5	0.5	0.2	ug/L	NA	0.056 U	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242) (dissolved)	0.5	0.5	0.2	ug/L	NA	0.075 U	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248) (dissolved)	0.5	0.5	0.2	ug/L	NA	0.061 U	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254) (dissolved)	0.5	0.5	0.2	ug/L	NA	0.082 U	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260) (dissolved)	0.5	0.5	0.2	ug/L	NA	0.044 U	NA	NA	NA	NA	NA	NA	NA
<b>Volatile Organics</b>													
1,2,3-Trimethylbenzene	60	130	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA
2-Methylnaphthalene	24	76	19	ug/L	NA	NA	NA	NA	NA	NA	5 U	NA	NA
Acrylonitrile	2	6.8	2	ug/L	NA	NA	NA	NA	NA	NA	2 U	NA	NA
Hexachloroethane	5	13	6.7	ug/L	NA	NA	NA	NA	NA	NA	5 U	NA	NA
Iodomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA
m&p-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	2 U	NA	NA
Tetrahydrofuran	3,600	17,000	11,000	ug/L	NA	NA	NA	NA	NA	NA	90 U	NA	NA
trans-1,4-Dichloro-2-butene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA
Acetone	5,300	17,000	1,700	ug/L	1.0 U	NA	10 U	NA	NA	15 J	50 U	NA	41 J
Benzene	5	5	200	ug/L	0.32 U	NA	0.35 J	NA	NA	1.0 U	1 U	NA	32
Bromobenzene	47	150	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA
Bromodichloromethane	80	80	--	ug/L	0.34 U	NA	1.0 U	NA	NA	1.0 U	1 U	NA	20 U
Bromoform	80	80	--	ug/L	0.36 U	NA	1.0 U	NA	NA	1.0 U	1 U	NA	20 U
Bromomethane	120	380	5	ug/L	0.40 U	NA	1.0 U	NA	NA	1.0 U	5 U	NA	20 U
2-Butanone	2,400	11,000	2,200	ug/L	0.82 U	NA	10 U	NA	NA	25 U	25 U	NA	500 U
n-Butylbenzene	270	870	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA
sec-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA
tert-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA
Carbon Disulfide	440	1,800	--	ug/L	0.40 U	NA	1.0 U	NA	NA	5.0 U	5 U	NA	100 U
Carbon Tetrachloride	5	5	38	ug/L	0.24 U	NA	1.0 U	NA	NA	1.0 U	1 U	NA	20 U
CFC-11	1,800	5,700	--	ug/L	0.56 U	NA	1.0 U	NA	NA	1.0 U	1 U	NA	20 U
CFC-12	30	94	--	ug/L	0.52 U	NA	2.0 U	NA	NA	1.0 U	5 U	NA	20 U
Chlorobenzene	100	100	25	ug/L	0.28 U	NA	1.0 U	NA	NA	1.0 U	1 U	NA	20 U
Chlorobromomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA
Chlorodibromomethane	80	80	--	ug/L	0.52 U	NA	1.0 U	NA	NA	1.0 U	5 U	NA	20 U
Chloroethane	240	760	1,100	ug/L	50	NA	36	NA	NA	1.0 U	33	NA	20 U
Chloroform	80	80	350	ug/L	1.8 J	NA	1.0 U	NA	NA	1.0 U	1 U	NA	20 U
Chloromethane	220	1,100	--	ug/L	0.26 U	NA	1.0 U	NA	NA	1.0 U	5 U	NA	20 U
Cyclohexane	--	--	--	ug/L	0.26 U	NA	1.0 U	NA	NA	1.0 U	NA	NA	20 U
Cymene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	5 U	NA	NA
1,2-Dibromo-3-chloropropane	0.2	0.2	--	ug/L	1.2 U	NA	2.0 U	NA	NA	1.0 U	5 U	NA	20 U
1,2-Dibromoethane	0.05	0.05	5.7	ug/L	0.44 U	NA	1.0 U	NA	NA	1.0 U	1 U	NA	20 U
Dibromomethane	18	57	--	ug/L	NA	NA	NA	NA	NA	NA	5 U	NA	NA
1,2-Dichlorobenzene	600	600	13	ug/L	0.22 U	NA	1.0 U	NA	NA	1.0 U	1 U	NA	20 U
1,3-Dichlorobenzene	12	38	28	ug/L	0.30 U	NA	1.0 U	NA	NA	1.0 U	1 U	NA	20 U
1,4-Dichlorobenzene	75	75	17	ug/L	0.34 U	NA	1.0 U	NA	NA	1.0 U	1 U	NA	20 U

**Table 1**  
**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW5-01 09/14/01 MWW5-01-GW(14-24)-N	MWW5-01 09/14/01 MWW5-01-GW14-24-N	MWW5-01 01/09/02 MWW5-01-GW	MWW5-01 01/09/02 MWW5-01-GWDL	MWW5-01 11/13/06 MWW5-01-WG-111306	MWW5-01 05/19/16 MWW5-01-GW-051916	MWW5-01 09/20/16 MWW5-01_092016	MWW5-01 05/25/17 MWW-05-01_GW-052517	TW01-03 10/04/12 TW-01-03_100412
1,1-Dichloroethane	1,200	3,800	740	ug/L	30	NA	20	NA	NA	1.0 U	1 U	NA	67
1,2-Dichloroethane	5	5	360	ug/L	0.42 U	NA	1.0 U	NA	NA	1.0 U	1 U	NA	20 U
1,1-Dichloroethene	7	7	130	ug/L	0.78 J	NA	1.0 U	NA	NA	1.0 U	1 U	NA	20 U
cis-1,2-Dichloroethene	70	70	620	ug/L	0.44 U	NA	0.32 J	NA	NA	1.0 U	1 U	NA	93
trans-1,2-Dichloroethene	100	100	1,500	ug/L	0.30 U	NA	0.50 U	NA	NA	1.0 U	1 U	NA	20 U
Dichloromethane	5	5	1,500	ug/L	0.77 J	NA	1.0 U	NA	NA	5.0 U	5 U	NA	100 U
1,2-Dichloropropane	5	5	230	ug/L	0.34 U	NA	1.0 U	NA	NA	1.0 U	1 U	NA	20 U
cis-1,3-Dichloropropene	--	--	--	ug/L	0.24 U	NA	1.0 U	NA	NA	1.0 U	1 U	NA	20 U
trans-1,3-Dichloropropene	--	--	--	ug/L	0.54 U	NA	1.0 U	NA	NA	1.0 U	1 U	NA	20 U
Diethyl Ether	5	5	--	ug/L	NA	NA	NA	NA	NA	NA	10 U	NA	NA
1,4-Dioxane	7.2	37	2,800	ug/L	NA	NA	NA	NA	NA	NA	10	NA	NA
Ethylbenzene	66	74	18	ug/L	0.24 U	NA	1.0 U	NA	NA	1.0 U	1 U	NA	26
Isopropylbenzene	590	1,900	28	ug/L	0.24 U	NA	1.0 U	NA	NA	5.0 U	5 U	NA	100 U
Methyl acetate	--	--	--	ug/L	0.82 U	NA	10 U	NA	NA	10 U	NA	NA	200 U
Methyl N-Butyl Ketone	50	94	--	ug/L	0.92 U	NA	10 U	NA	NA	50 U	50 U	NA	1,000 U
Methylcyclohexane	--	--	--	ug/L	0.30 U	NA	1.0 U	NA	NA	1.0 U	NA	NA	20 U
4-Methyl-2-pentanone	300	940	--	ug/L	0.46 U	NA	0.50 J	NA	NA	3.6 J	50 U	NA	70 J
Methyl tert-butyl ether	40	40	7,100	ug/L	0.26 U	NA	5.0 U	NA	NA	5.0 U	5 U	NA	100 U
Naphthalene	590	1,900	11	ug/L	NA	NA	NA	NA	NA	NA	5 U	NA	NA
n-Propylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA
Styrene	100	100	80	ug/L	0.30 U	NA	1.0 U	NA	NA	1.0 U	1 U	NA	20 U
1,1,1,2-Tetrachloroethane	28	140	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA
1,1,1,2,2-Tetrachloroethane	3.6	18	78	ug/L	0.50 U	NA	1.0 U	NA	NA	1.0 U	1 U	NA	20 U
Tetrachloroethene	5	5	60	ug/L	0.46 U	NA	1.0 U	NA	NA	1.0 U	1 U	NA	20 U
Toluene	470	790	270	ug/L	0.58 J	NA	0.26 J	NA	NA	1.0 U	1 U	NA	530
1,2,3-Trichlorobenzene	16	51	--	ug/L	NA	NA	NA	NA	NA	NA	5 U	NA	NA
1,2,4-Trichlorobenzene	70	70	99	ug/L	0.34 U	NA	1.0 U	NA	NA	1.0 U	5 U	NA	20 U
1,1,1-Trichloroethane	200	200	89	ug/L	0.30 U	NA	1.0 U	NA	NA	1.0 U	1 U	NA	20 U
1,1,2-Trichloroethane	5	5	330	ug/L	0.60 U	NA	1.0 U	NA	NA	1.0 U	1 U	NA	20 U
Trichloroethene	5	5	200	ug/L	0.28 U	NA	1.0 U	NA	NA	1.0 U	1 U	NA	20 U
1,2,3-Trichloropropane	1	1	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	160,000	170,000	32	ug/L	0.64 U	NA	1.0 U	NA	NA	1.0 U	NA	NA	20 U
1,2,4-Trimethylbenzene	60	63	17	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA
1,3,5-Trimethylbenzene	60	72	45	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA
Vinyl Chloride	2	2	13	ug/L	0.30 U	NA	0.27 J	NA	NA	1.0 U	1 U	NA	20 U
o-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA
Total Xylenes	280	280	41	ug/L	0.66 U	NA	0.43 J	NA	NA	2.0 U	NA	NA	110
<b>Semivolatile Organics</b>													
1,1'-Biphenyl	--	--	--	ug/L	2.6 U	NA	NA	25 U	NA	NA	NA	NA	9.5 U
2,2'-Oxybis(1-Chloropropane)	--	--	--	ug/L	0.78 U	NA	NA	12 U	NA	NA	NA	NA	9.5 U
2,4,5-Trichlorophenol	180	570	--	ug/L	1.2 U	NA	NA	12 U	NA	NA	NA	NA	16 J
2,4,6-Trichlorophenol	40	170	5	ug/L	1.7 U	NA	NA	12 U	NA	NA	NA	NA	38 U
2,4-Dichlorophenol	80	330	11	ug/L	0.85 U	NA	NA	25 U	NA	NA	NA	NA	95 U
2,4-Dimethylphenol	120	380	380	ug/L	0.85 U	NA	NA	12 U	NA	NA	NA	NA	210
2,4-Dinitrophenol	12	38	19	ug/L	3.0 U	NA	NA	50 U	NA	NA	NA	NA	190 U
2,4-Dinitrotoluene	1.1	5.5	--	ug/L	0.79 U	NA	NA	12 U	NA	NA	NA	NA	48 U
2,6-Dinitrotoluene	--	--	--	ug/L	0.57 U	NA	NA	12 U	NA	NA	NA	NA	48 U
2-Chloronaphthalene	470	1,500	--	ug/L	0.85 U	NA	NA	12 U	NA	NA	NA	NA	48 U
2-Chlorophenol	32	130	18	ug/L	1.0 U	NA	NA	12 U	NA	NA	NA	NA	48 U
2-Methylnaphthalene	24	76	19	ug/L	0.64 U	NA	NA	12 U	NA	NA	NA	NA	8.2 J
2-Methylphenol	8,000	33,000	30	ug/L	1.1 U	NA	NA	12 U	NA	NA	NA	NA	35 J
2-Nitroaniline	--	--	--	ug/L	0.70 U	NA	NA	50 U	NA	NA	NA	NA	190 U
2-Nitrophenol	12	38	--	ug/L	2.1 U	NA	NA	12 U	NA	NA	NA	NA	48 U
3,3'-Dichlorobenzidine	1.6	8.2	0.3	ug/L	0.93 U	NA	NA	50 U	NA	NA	NA	NA	48 U

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3-Nitroaniline	--	--	--	ug/L	0.71 U	NA	NA	50 U	NA	NA	NA	NA	190 U
4,6-Dinitro-2-methylphenol	20	20	--	ug/L	1.3 U	NA	NA	50 U	NA	NA	NA	NA	190 U
4-Bromophenyl-phenylether	--	--	--	ug/L	0.88 U	NA	NA	12 U	NA	NA	NA	NA	48 U
4-Chloro-3-Methylphenol	400	1,700	7.4	ug/L	0.99 U	NA	NA	12 U	NA	NA	NA	NA	48 U
4-Chloroaniline	3	9.4	--	ug/L	0.61 U	NA	NA	25 U	NA	NA	NA	NA	19 U
4-Chlorophenyl-phenylether	--	--	--	ug/L	0.79 U	NA	NA	12 U	NA	NA	NA	NA	48 U
4-Methylphenol	--	--	--	ug/L	1.3 U	NA	NA	12 U	NA	NA	NA	NA	47 J
4-Nitroaniline	--	--	--	ug/L	1.3 U	NA	NA	50 U	NA	NA	NA	NA	190 U
4-Nitrophenol	--	--	--	ug/L	1.9 U	NA	NA	50 U	NA	NA	NA	NA	190 U
Acenaphthene	360	1,100	38	ug/L	0.80 U	NA	NA	12 U	NA	NA	NA	NA	48 U
Acenaphthylene	360	1,100	--	ug/L	0.71 U	NA	NA	12 U	NA	NA	NA	NA	48 U
Acetophenone	3,200	13,000	--	ug/L	2.6 U	NA	NA	25 U	NA	NA	NA	NA	9.5 U
Anthracene	43	43	--	ug/L	0.68 U	NA	NA	12 U	NA	NA	NA	NA	48 U
Atrazine	3	3	7.3	ug/L	2.5 U	NA	NA	12 U	NA	NA	NA	NA	9.5 U
Benzaldehyde	--	--	--	ug/L	2.8 U	NA	NA	25 U	NA	NA	NA	NA	9.5 U
Benzo(a)anthracene	2.3	9.4	--	ug/L	0.70 U	NA	NA	12 U	NA	NA	NA	NA	9.5 U
Benzo(a)pyrene	0.2	0.2	--	ug/L	0.73 U	NA	NA	12 U	NA	NA	NA	NA	9.5 U
Benzo(b)fluoranthene	1.5	1.5	--	ug/L	0.94 U	NA	NA	12 U	NA	NA	NA	NA	9.5 U
Benzo(g,h,i)perylene	1	1	--	ug/L	0.85 U	NA	NA	12 U	NA	NA	NA	NA	9.5 U
Benzo(k)fluoranthene	1	1	--	ug/L	0.84 U	NA	NA	12 U	NA	NA	NA	NA	9.5 U
bis(2-Chloroethoxy)methane	--	--	--	ug/L	0.87 U	NA	NA	12 U	NA	NA	NA	NA	48 U
bis(2-Chloroethyl)ether	1	3.3	1	ug/L	0.97 U	NA	NA	12 U	NA	NA	NA	NA	9.5 U
bis(2-Ethylhexyl)phthalate	6	6	14	ug/L	2.7 U	NA	NA	12 U	NA	NA	NA	NA	48 U
Butylbenzylphthalate	80	330	67	ug/L	0.88 U	NA	NA	12 U	NA	NA	NA	NA	48 U
Caprolactam	2,000	9,400	--	ug/L	2.5 U	NA	NA	25 U	NA	NA	NA	NA	48 U
Carbazole	10	38	10	ug/L	0.82 U	NA	NA	25 U	NA	NA	NA	NA	2.7 J
Chrysene	2	2	--	ug/L	0.75 U	NA	NA	12 U	NA	NA	NA	NA	9.5 U
Dibenzo(a,h)anthracene	2	2.5	--	ug/L	0.79 U	NA	NA	12 U	NA	NA	NA	NA	19 U
Dibenzofuran	5.9	19	4	ug/L	1.1 U	NA	NA	12 U	NA	NA	NA	NA	38 U
Diethylphthalate	4,700	15,000	110	ug/L	0.65 U	NA	NA	12 U	NA	NA	NA	NA	48 U
Dimethylphthalate	590	1,900	--	ug/L	0.76 U	NA	NA	12 U	NA	NA	NA	NA	48 U
Di-n-Butylphthalate	27	110	9.7	ug/L	0.67 U	NA	NA	12 U	NA	NA	NA	NA	48 U
Di-n-Octylphthalate	22	22	--	ug/L	1.1 U	NA	NA	12 U	NA	NA	NA	NA	48 U
Fluoranthene	240	260	1.6	ug/L	0.81 U	NA	NA	12 U	NA	NA	NA	NA	9.5 U
Fluorene	240	760	12	ug/L	1.0 U	NA	NA	12 U	NA	NA	NA	NA	48 U
Hexachlorobenzene	1	1	0.2	ug/L	0.74 U	NA	NA	12 U	NA	NA	NA	NA	1.9 U
Hexachlorocyclopentadiene	50	50	--	ug/L	1.1 U	NA	NA	12 U	NA	NA	NA	NA	48 U
Hexachloroethane	5	13	6.7	ug/L	0.74 U	NA	NA	12 U	NA	NA	NA	NA	48 U
Indeno(1,2,3-cd)pyrene	2	2	--	ug/L	0.63 U	NA	NA	12 U	NA	NA	NA	NA	19 U
Isophorone	760	3,800	1,300	ug/L	0.63 U	NA	NA	12 U	NA	NA	NA	NA	48 U
Nitrobenzene	12	38	180	ug/L	0.81 U	NA	NA	12 U	NA	NA	NA	NA	29 U
N-Nitroso-di-n-propylamine	5	5	--	ug/L	0.67 U	NA	NA	12 U	NA	NA	NA	NA	48 U
N-Nitrosodiphenylamine	150	750	--	ug/L	1.4 U	NA	NA	12 U	NA	NA	NA	NA	48 U
Pentachlorophenol	1	1	--	ug/L	2.4 U	NA	NA	12 U	NA	NA	NA	NA	48 U
Phenanthrene	180	570	2	ug/L	0.82 U	NA	NA	2.3 J	NA	NA	NA	NA	1.3 J
Phenol	1,200	5,700	450	ug/L	2.6 U	NA	NA	12 U	NA	NA	NA	NA	48 U
Pyrene	140	140	--	ug/L	1.1 U	NA	NA	12 U	NA	NA	NA	NA	48 U
Hexachloro-1,3-Butadiene	5.9	19	0.053	ug/L	0.73 U	NA	NA	12 U	NA	NA	NA	NA	9.5 U
Naphthalene	590	1,900	11	ug/L	0.75 U	NA	NA	2.5 J	NA	NA	NA	NA	19 J
<b>Inorganics</b>													
Antimony	6	6	130	ug/L	2.2 U	NA	25.0 U	NA	NA	NA	NA	NA	2.0 UB
Arsenic	10	10	10	ug/L	3.9 U	NA	58.5	NA	NA	NA	NA	NA	36
Barium	2,000	2,000	670	ug/L	156	NA	163	NA	NA	NA	NA	NA	120 B
Beryllium	4	4	6.7	ug/L	0.54 U	NA	1.0 U	NA	NA	NA	NA	NA	1.0 U

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Cadmium	5	5	2.5	ug/L	0.28 U	NA	0.47 J	NA	NA	NA	NA	NA	0.50 U
Calcium	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	144,000	NA
Chromium	100	100	11	ug/L	1.4 U	NA	10.0 U	NA	NA	NA	NA	NA	0.90 J
Cobalt	20	20	100	ug/L	1.7 J	NA	4.1 J	NA	NA	NA	NA	NA	0.91 J
Copper	30	95	13	ug/L	4.2 U	NA	5.0 U	NA	NA	NA	NA	NA	2.0 UB
Cyanide (total)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	300	--	ug/L	NA	NA	NA	NA	NA	NA	NA	200	NA
Lead	1	1	14	ug/L	2.5 U	NA	3.0 U	NA	NA	NA	NA	NA	0.23 J
Magnesium	330,000	1,000,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	18,900	NA
Manganese	50	50	1,300	ug/L	322	NA	766	NA	NA	NA	NA	86	100
Mercury	2	2	0.0013	ug/L	0.069 U	NA	0.30	NA	NA	NA	NA	NA	0.20 U
Nickel	36	110	73	ug/L	13.0 J	NA	12.4 J	NA	NA	NA	NA	NA	8.6
Selenium	50	50	5	ug/L	4.5 U	NA	5.0 U	NA	NA	NA	NA	NA	2.0 U
Silver	5.9	19	0.2	ug/L	1.5 U	NA	5.0 U	NA	NA	NA	NA	NA	0.20 U
Thallium	2	2	3.7	ug/L	5.0 U	NA	1.0 U	NA	NA	NA	NA	NA	1.0 U
Vanadium	4	4	27	ug/L	1.8 J	NA	0.83 J	NA	NA	NA	NA	NA	1.2 J
Zinc	1,800	5,000	170	ug/L	12.0 U	NA	20.0 U	NA	NA	NA	NA	NA	10 UB
<b>Inorganics-Filtered</b>													
Antimony (dissolved)	6	6	130	ug/L	2.2 U	NA	25.0 U	NA	NA	NA	NA	NA	NA
Arsenic (dissolved)	10	10	10	ug/L	3.9 U	NA	47.3	NA	NA	NA	NA	NA	NA
Barium (dissolved)	2,000	2,000	670	ug/L	178	NA	161	NA	NA	NA	NA	NA	NA
Beryllium (dissolved)	4	4	6.7	ug/L	0.54 U	NA	1.0 U	NA	NA	NA	NA	NA	NA
Cadmium (dissolved)	5	5	2.5	ug/L	0.28 U	NA	0.39 J	NA	NA	NA	NA	NA	NA
Chromium (dissolved)	--	--	11	ug/L	1.4 U	NA	10.0 U	NA	NA	NA	NA	NA	NA
Cobalt (dissolved)	20	20	100	ug/L	3.0 J	NA	4.1 J	NA	NA	NA	NA	NA	NA
Copper (dissolved)	30	95	13	ug/L	4.2 U	NA	5.0 U	NA	NA	NA	NA	NA	NA
Iron (dissolved)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	90	NA
Lead (dissolved)	1	1	14	ug/L	2.5 U	NA	3.0 U	NA	NA	NA	NA	NA	NA
Manganese (dissolved)	50	50	1,300	ug/L	375	NA	815	NA	NA	NA	NA	7	NA
Mercury (dissolved)	--	--	0.0013	ug/L	0.069 U	NA	0.22	NA	NA	NA	NA	NA	NA
Nickel (dissolved)	36	110	73	ug/L	14.3 J	NA	11.3 J	NA	NA	NA	NA	NA	NA
Selenium (dissolved)	50	50	5	ug/L	4.5 U	NA	5.0 U	NA	NA	NA	NA	NA	NA
Silver (dissolved)	5.9	19	0.2	ug/L	1.5 U	NA	5.0 U	NA	NA	NA	NA	NA	NA
Thallium (dissolved)	2	2	3.7	ug/L	5.3 J	NA	1.0 U	NA	NA	NA	NA	NA	NA
Vanadium (dissolved)	4	4	27	ug/L	1.0 J	NA	10.0 U	NA	NA	NA	NA	NA	NA
Zinc (dissolved)	1,800	5,000	170	ug/L	12.0 U	NA	20.0 U	NA	NA	NA	NA	NA	NA
<b>Miscellaneous</b>													
Alkalinity, total (as CaCO3)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	428,000	NA
Hardness	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	440,000	NA
pH (water)	--	--	--	none	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	500,000	500,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	554,000	NA
Total Suspended Solids	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	3,000 U	NA
<b>Field</b>													
Conductivity, field	--	--	--	mS/cm	NA	NA	NA	NA	2.05	NA	NA	NA	NA
Conductivity, field	--	--	--	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved oxygen (DO), field	--	--	--	ug/L	NA	NA	NA	NA	240	NA	NA	NA	NA
Oxidation reduction potential (ORP), field	--	--	--	millivolts	NA	NA	NA	NA	76	NA	NA	NA	NA
Temperature, ambient	--	--	--	deg f	NA	NA	NA	NA	40	NA	NA	NA	NA
Temperature, field	--	--	--	deg c	NA	NA	NA	NA	11.65	NA	NA	NA	NA
Turbidity (field)	--	--	--	NTU	NA	NA	NA	NA	8.76	NA	NA	NA	NA
<b>Dioxins/Furans</b>													
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA

**Table 1**  
**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	MWW5-01 09/14/01 MWW5-01-GW(14-24)-N	MWW5-01 09/14/01 MWW5-01-GW14-24-N	MWW5-01 01/09/02 MWW5-01-GW	MWW5-01 01/09/02 MWW5-01-GWDL	MWW5-01 11/13/06 MWW5-01-WG-111306	MWW5-01 05/19/16 MWW5-01-GW-051916	MWW5-01 09/20/16 MWW5-01_092016	MWW5-01 05/25/17 MWW-05-01_GW-052517	TW01-03 10/04/12 TW-01-03_100412
1,2,3,4,6,7,8-HpCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,4,6,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,4,7,8-PeCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD	<b>30</b>	<b>30</b>	<b>10</b>	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total heptachlorodibenzofuran (HpCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total heptachlorodibenzo-p-dioxin (HpCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total hexachlorodibenzofuran (HxCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total hexachlorodibenzo-p-dioxin (HxCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total pentachlorodibenzofuran (PeCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total pentachlorodibenzo-p-dioxin (PeCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzofuran (TCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzo-p-dioxin (TCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW01-03 02/19/13 TW-01-03_021913	TW01-03 06/25/13 TW-01-03_062513	TW01-03 12/03/13 TW01-03_20131203	TW01-03 09/20/16 TW-01-03_092016	TW01-03 09/20/16 TW-01-03_092016DL	TW09-01 10/05/12 TW 09-01_100512	TW09-01 02/20/13 TW-09-01_022013	TW09-01 06/24/13 TW-09-01_062413	TW10-01 10/04/12 TW-10-01_100412
<b>PCBs</b>													
Aroclor-1016	0.5	0.5	0.2	ug/L	0.095 U	0.095 U	0.095 U	NA	NA	0.095 U	0.095 UH	0.19 U	0.095 U
Aroclor-1221	0.5	0.5	0.2	ug/L	0.095 U	0.095 U	0.095 U	NA	NA	0.095 U	0.095 UH	0.19 U	0.095 U
Aroclor-1232	0.5	0.5	0.2	ug/L	0.095 U	0.095 U	0.095 U	NA	NA	0.095 U	0.095 UH	0.19 U	0.095 U
Aroclor-1242	0.5	0.5	0.2	ug/L	0.095 U	0.095 U	0.095 U	NA	NA	0.095 U	0.095 UH	0.19 U	0.095 U
Aroclor-1248	0.5	0.5	0.2	ug/L	0.095 U	0.095 U	0.095 U	NA	NA	0.095 U	0.095 UH	0.19 U	0.095 U
Aroclor-1254	0.5	0.5	0.2	ug/L	0.095 U	0.095 U	0.095 U	NA	NA	0.095 U	0.095 UH	0.19 U	0.095 U
Aroclor-1260	0.5	0.5	0.2	ug/L	0.095 U	0.095 U	0.095 U	NA	NA	0.095 U	0.095 UH	0.19 U	0.095 U
<b>PCBs-Filtered</b>													
Aroclor-1016 (PCB-1016) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Volatile Organics</b>													
1,2,3-Trimethylbenzene	60	130	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA
2-Methylnaphthalene	24	76	19	ug/L	NA	NA	NA	NA	5 U	NA	NA	NA	NA
Acrylonitrile	2	6.8	2	ug/L	NA	NA	NA	NA	2 U	NA	NA	NA	NA
Hexachloroethane	5	13	6.7	ug/L	NA	NA	NA	NA	5 U	NA	NA	NA	NA
Iodomethane	--	--	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA
m&p-Xylene	--	--	--	ug/L	NA	NA	NA	NA	4	NA	NA	NA	NA
Tetrahydrofuran	3,600	17,000	11,000	ug/L	NA	NA	NA	NA	90 U	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	--	--	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA
Acetone	5,300	17,000	1,700	ug/L	51 J	64 J	44 J	NA	50 U	25 U	1.4 JB	3.1 J	25 U
Benzene	5	5	200	ug/L	31	27	26	NA	2	0.13 J	1.0 U	0.24 J	1.0 U
Bromobenzene	47	150	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA
Bromodichloromethane	80	80	--	ug/L	17 U	6.7 U	6.7 U	NA	1 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	80	80	--	ug/L	17 U	6.7 U	6.7 U	NA	1 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	120	380	5	ug/L	17 U	6.7 U	6.7 U	NA	5 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	2,400	11,000	2,200	ug/L	420 U	51 J	170 U	NA	25 U	25 U	25 U	0.61 J	25 U
n-Butylbenzene	270	870	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA
sec-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA
tert-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA
Carbon Disulfide	440	1,800	--	ug/L	83 U	33 U	1.5 J	NA	5 U	5.0 U	5.0 U	0.20 J	5.0 U
Carbon Tetrachloride	5	5	38	ug/L	17 U	6.7 U	6.7 U	NA	1 U	1.0 U	1.0 U	1.0 U	1.0 U
CFC-11	1,800	5,700	--	ug/L	17 U*	6.7 U	6.7 U	NA	1 U	1.0 U	1.0 U	1.0 U	1.0 U
CFC-12	30	94	--	ug/L	17 U*	6.7 U	6.7 U	NA	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	100	100	25	ug/L	17 U	6.7 U	6.7 U	NA	1 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobromomethane	--	--	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA
Chlorodibromomethane	80	80	--	ug/L	17 U	6.7 U	6.7 U	NA	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	240	760	1,100	ug/L	17 U	1.9 J	6.7 U	NA	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	80	80	350	ug/L	17 U	6.7 U	6.7 U	NA	1 U	1.0 U	1.0 U	1.0 U	0.54 J
Chloromethane	220	1,100	--	ug/L	17 U	6.7 U	6.7 U	NA	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	--	--	--	ug/L	17 U	1.5 J	3.7 J	NA	NA	1.0 U	1.0 U	1.0 U	R
Cymene	--	--	--	ug/L	NA	NA	NA	NA	5 U	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.2	0.2	--	ug/L	17 U	6.7 U	6.7 U	NA	5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	0.05	0.05	5.7	ug/L	17 U	6.7 U	6.7 U	NA	1 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromomethane	18	57	--	ug/L	NA	NA	NA	NA	5 U	NA	NA	NA	NA
1,2-Dichlorobenzene	600	600	13	ug/L	17 U	1.6 J	6.7 U	NA	1 U	1.0 U	1.0 U	0.37 J	1.0 U
1,3-Dichlorobenzene	12	38	28	ug/L	17 U	6.7 U	6.7 U	NA	1 U	1.0 U	1.0 U	0.24 J	1.0 U
1,4-Dichlorobenzene	75	75	17	ug/L	17 U	6.7 U	6.7 U	NA	1 U	1.0 U	1.0 U	0.30 J	1.0 U

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1,1-Dichloroethane	1,200	3,800	740	ug/L	65	58	52	NA	4	1.0 U	0.24 J	0.38 J	1.0 U
1,2-Dichloroethane	5	5	360	ug/L	4.5 J	6.7 U	6.7 U	NA	1 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	7	7	130	ug/L	17 U	6.7 U	6.7 U	NA	1 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	70	70	620	ug/L	96	84	81	NA	4	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	100	100	1,500	ug/L	17 U	3.1 J	2.5 J	NA	1 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichloromethane	5	5	1,500	ug/L	83 U	11 JB	33 U	NA	5 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	5	5	230	ug/L	17 U	6.7 U	6.7 U	NA	1 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	--	--	--	ug/L	17 U	6.7 U	6.7 U	NA	1 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	--	--	--	ug/L	17 U	6.7 U	6.7 U	NA	1 U	1.0 U	1.0 U	1.0 U	1.0 U
Diethyl Ether	5	5	--	ug/L	NA	NA	NA	NA	10 U	NA	NA	NA	NA
1,4-Dioxane	7.2	37	2,800	ug/L	NA	NA	NA	38	NA	NA	NA	NA	NA
Ethylbenzene	66	74	18	ug/L	30	27	24	NA	2	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene	590	1,900	28	ug/L	83 U	1.2 J	33 U	NA	5 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	--	--	--	ug/L	170 U	67 U	67 U	NA	NA	10 U	10 U	10 U	10 U
Methyl N-Butyl Ketone	50	94	--	ug/L	830 U	330 U	330 U	NA	50 U	50 U	50 U	50 U	50 U
Methylcyclohexane	--	--	--	ug/L	2.7 J	3.3 J	4.9 J	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-pentanone	300	940	--	ug/L	72 J	91 J	78 J	NA	50 U	50 U	50 U	0.47 J	50 U
Methyl tert-butyl ether	40	40	7,100	ug/L	83 U	33 U	33 U	NA	5 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	590	1,900	11	ug/L	NA	NA	NA	NA	5 U	NA	NA	NA	NA
n-Propylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA
Styrene	100	100	80	ug/L	17 U	6.7 U	6.7 U	NA	1 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1,2-Tetrachloroethane	28	140	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA
1,1,1,2-Tetrachloroethane	3.6	18	78	ug/L	17 U	6.7 U	6.7 U	NA	1 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	5	60	ug/L	17 U	6.7 U	6.7 U	NA	1 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	470	790	270	ug/L	600	450	440	NA	26	0.18 J	1.0 U	0.39 J	0.19 J
1,2,3-Trichlorobenzene	16	51	--	ug/L	NA	NA	NA	NA	5 U	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	70	99	ug/L	17 U	6.7 U	6.7 U	NA	5 U	1.0 U	1.0 U	1.7	1.0 UJ
1,1,1-Trichloroethane	200	200	89	ug/L	17 U	6.7 U	6.7 U	NA	1 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	5	5	330	ug/L	17 U	6.7 U	6.7 U	NA	1 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	5	200	ug/L	17 U	6.7 U	6.7 U	NA	1 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichloropropane	1	1	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	160,000	170,000	32	ug/L	17 U	6.7 U	6.7 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	60	63	17	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA
1,3,5-Trimethylbenzene	60	72	45	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA
Vinyl Chloride	2	2	13	ug/L	4.0 J	3.1 J	3.2 J	NA	2	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	--	--	--	ug/L	NA	NA	NA	NA	3	NA	NA	NA	NA
Total Xylenes	280	280	41	ug/L	140	110	110	NA	NA	2.0 U	2.0 U	0.28 J	2.0 U
<b>Semivolatile Organics</b>													
1,1'-Biphenyl	--	--	--	ug/L	6.3 U	9.5 U	100 U	NA	NA	2.4 U	19 U	3.8 U	0.95 U
2,2'-Oxybis(1-Chloropropane)	--	--	--	ug/L	6.3 U	9.5 U	100 U	NA	NA	2.4 U	19 U	3.8 U	0.95 U
2,4,5-Trichlorophenol	180	570	--	ug/L	7.9 J	48 U	7.8 J	NA	NA	12 U	95 U	19 U	4.8 U
2,4,6-Trichlorophenol	40	170	5	ug/L	25 U	38 U	400 U	NA	NA	9.5 U	76 U	15 U	3.8 U
2,4-Dichlorophenol	80	330	11	ug/L	63 U	95 U	1,000 U	NA	NA	24 U	190 U	38 U	9.5 U
2,4-Dimethylphenol	120	380	380	ug/L	160	260	320 J	NA	NA	12 U	95 U	19 U	4.8 U
2,4-Dinitrophenol	12	38	19	ug/L	130 U	190 U	2,000 U	NA	NA	48 U	380 U	76 U	19 U
2,4-Dinitrotoluene	1.1	5.5	--	ug/L	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U
2,6-Dinitrotoluene	--	--	--	ug/L	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U
2-Chloronaphthalene	470	1,500	--	ug/L	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U
2-Chlorophenol	32	130	18	ug/L	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U
2-Methylnaphthalene	24	76	19	ug/L	9.3 J	10 J	9.8 J	NA	NA	0.74 J	95 U	19 U	4.8 U
2-Methylphenol	8,000	33,000	30	ug/L	26 J	44 J	48 J	NA	NA	12 U	95 U	19 U	4.8 U
2-Nitroaniline	--	--	--	ug/L	130 U	190 U	2,000 U	NA	NA	48 U	380 U	76 U	19 U
2-Nitrophenol	12	38	--	ug/L	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U
3,3'-Dichlorobenzidine	1.6	8.2	0.3	ug/L	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U

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3-Nitroaniline	--	--	--	ug/L	130 U	190 U	2,000 U	NA	NA	48 U	380 U	76 U	19 U
4,6-Dinitro-2-methylphenol	20	20	--	ug/L	130 U	190 U	2,000 U	NA	NA	48 U	380 U	76 U	19 U
4-Bromophenyl-phenylether	--	--	--	ug/L	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U
4-Chloro-3-Methylphenol	400	1,700	7.4	ug/L	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U
4-Chloroaniline	3	9.4	--	ug/L	13 U	19 U	200 U	NA	NA	4.8 U	38 U	7.6 U	1.9 U
4-Chlorophenyl-phenylether	--	--	--	ug/L	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U
4-Methylphenol	--	--	--	ug/L	18 J	34 J	33 J	NA	NA	12 U	95 U	19 U	4.8 U
4-Nitroaniline	--	--	--	ug/L	130 U	190 U	2,000 U	NA	NA	48 U	380 U	76 U	19 U
4-Nitrophenol	--	--	--	ug/L	130 U	190 U	2,000 U	NA	NA	48 U	380 U	76 U	19 U
Acenaphthene	360	1,100	38	ug/L	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U
Acenaphthylene	360	1,100	--	ug/L	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U
Acetophenone	3,200	13,000	--	ug/L	6.3 U	9.5 U	100 U	NA	NA	2.4 U	19 U	3.8 U	0.95 U
Anthracene	43	43	--	ug/L	32 U	48 U	500 U	NA	NA	0.66 J	95 U	19 U	4.8 U
Atrazine	3	3	7.3	ug/L	6.3 U	9.5 U	100 U	NA	NA	2.4 U	19 U*	3.8 U*	0.95 U
Benzaldehyde	--	--	--	ug/L	6.3 U*	9.5 U	100 U	NA	NA	2.4 U	19 U	3.8 U	0.95 U
Benzo(a)anthracene	2.3	9.4	--	ug/L	6.3 U	9.5 U	100 U	NA	NA	2.4 U	19 U	3.8 U	0.95 U
Benzo(a)pyrene	0.2	0.2	--	ug/L	6.3 U	9.5 U	100 U	NA	NA	2.4 U	19 U	3.8 U	0.95 U
Benzo(b)fluoranthene	1.5	1.5	--	ug/L	6.3 U	9.5 U	100 U	NA	NA	2.4 U	19 U	3.8 U	0.95 U
Benzo(g,h,i)perylene	1	1	--	ug/L	6.3 U	9.5 U	100 U	NA	NA	2.4 U	19 U	3.8 U	0.95 U
Benzo(k)fluoranthene	1	1	--	ug/L	6.3 U	9.5 U	100 U	NA	NA	2.4 U	19 U	3.8 U	0.95 U
bis(2-Chloroethoxy)methane	--	--	--	ug/L	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U
bis(2-Chloroethyl)ether	1	3.3	1	ug/L	6.3 U	9.5 U	100 U	NA	NA	2.4 U	19 U	3.8 U	0.95 U
bis(2-Ethylhexyl)phthalate	6	6	14	ug/L	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U
Butylbenzylphthalate	80	330	67	ug/L	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U
Caprolactam	2,000	9,400	--	ug/L	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U
Carbazole	10	38	10	ug/L	3.1 J	5.0 J	5.9 J	NA	NA	24 U	190 U	38 U	9.5 U
Chrysene	2	2	--	ug/L	6.3 U	9.5 U	100 U	NA	NA	2.4 U	19 U	3.8 U	0.95 U
Dibenzo(a,h)anthracene	2	2.5	--	ug/L	13 U	19 U	200 U	NA	NA	4.8 U	38 U*	7.6 U	1.9 U
Dibenzofuran	5.9	19	4	ug/L	25 U	38 U	400 U	NA	NA	9.5 U	76 U	15 U	3.8 U
Diethylphthalate	4,700	15,000	110	ug/L	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U
Dimethylphthalate	590	1,900	--	ug/L	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U
Di-n-Butylphthalate	27	110	9.7	ug/L	5.3 J	13 JB	500 UB	NA	NA	12 U	95 U	19 U	4.8 U
Di-n-Octylphthalate	22	22	--	ug/L	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U
Fluoranthene	240	260	1.6	ug/L	6.3 U	9.5 U	100 U	NA	NA	2.4 U	19 U	3.8 U	0.95 U
Fluorene	240	760	12	ug/L	32 U	48 U	500 U	NA	NA	4.2 J	6.0 J	3.7 J	4.8 U
Hexachlorobenzene	1	1	0.2	ug/L	1.3 U	1.9 U	20 U	NA	NA	0.48 U	3.8 U	0.76 U	0.19 U
Hexachlorocyclopentadiene	50	50	--	ug/L	32 U*	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U
Hexachloroethane	5	13	6.7	ug/L	32 U	48 U	500 UJ	NA	NA	12 U	95 U	19 U	4.8 U
Indeno(1,2,3-cd)pyrene	2	2	--	ug/L	13 U	19 U	200 U	NA	NA	4.8 U	38 U	7.6 U	1.9 U
Isophorone	760	3,800	1,300	ug/L	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U
Nitrobenzene	12	38	180	ug/L	19 U	29 U	300 U	NA	NA	7.1 U	57 U	11 U	2.9 U
N-Nitroso-di-n-propylamine	5	5	--	ug/L	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U
N-Nitrosodiphenylamine	150	750	--	ug/L	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U
Pentachlorophenol	1	1	--	ug/L	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U
Phenanthrene	180	570	2	ug/L	13 U	19 U	200 U	NA	NA	4.2 J	8.8 J	2.6 J	1.9 U
Phenol	1,200	5,700	450	ug/L	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U
Pyrene	140	140	--	ug/L	32 U	48 U	500 U	NA	NA	0.60 J	95 U	19 U	4.8 U
Hexachloro-1,3-Butadiene	5.9	19	0.053	ug/L	6.3 U	9.5 U	100 UJ	NA	NA	2.4 U	19 U	3.8 U	0.95 U
Naphthalene	590	1,900	11	ug/L	21 J	24 J	24 J	NA	NA	12 U	95 U	19 U	4.8 U
<b>Inorganics</b>													
Antimony	6	6	130	ug/L	0.13 J	2.0 U	NA	NA	NA	NA	0.026 J	0.14 J	2.0 UB
Arsenic	10	10	10	ug/L	31	34 B	27 J	NA	NA	33	48	34 B	4.6
Barium	2,000	2,000	670	ug/L	110 B	200 B	160 J	NA	NA	450 B	490 B	330 B	400 B
Beryllium	4	4	6.7	ug/L	0.037 J	1.0 U	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U

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**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW01-03 02/19/13 TW-01-03_021913	TW01-03 06/25/13 TW-01-03_062513	TW01-03 12/03/13 TW01-03_20131203	TW01-03 09/20/16 TW-01-03_092016	TW01-03 09/20/16 TW-01-03_092016DL	TW09-01 10/05/12 TW 09-01_100512	TW09-01 02/20/13 TW-09-01_022013	TW09-01 06/24/13 TW-09-01_062413	TW10-01 10/04/12 TW-10-01_100412
Cadmium	5	5	2.5	ug/L	0.50 U	0.50 U	0.032 J	NA	NA	0.50 U	0.50 U	0.50 U	0.50 U
Calcium	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	100	11	ug/L	0.73 J	0.52 JB	0.66 J	NA	NA	3.9	2.0 U	1.3 J	1.0 J
Cobalt	20	20	100	ug/L	0.80 JB	0.68 JB	NA	NA	NA	NA	0.30 JB	0.67 J	1.7
Copper	30	95	13	ug/L	1.2 J	0.52 JB	NA	NA	NA	NA	0.50 J	0.50 JB	2.0 UB
Cyanide (total)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	300	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1	1	14	ug/L	0.18 JB	0.26 JB	1.0 UBJ	NA	NA	0.71 J	1.0 U	0.24 J	0.32 J
Magnesium	330,000	1,000,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	50	1,300	ug/L	72 B	110 B	NA	NA	NA	NA	1,100 B	1,600	190
Mercury	2	2	0.0013	ug/L	0.20 U	0.20 U	0.20 U	NA	NA	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	36	110	73	ug/L	4.8	4.7 B	NA	NA	NA	NA	2.0 U	4.9	4.0
Selenium	50	50	5	ug/L	1.3 J	1.2 J	2.0 U	NA	NA	2.0 U	0.96 J	2.0 U	2.0 U
Silver	5.9	19	0.2	ug/L	0.20 U	0.20 U	0.20 U	NA	NA	0.20 U	0.20 U	0.20 U	0.20 U
Thallium	2	2	3.7	ug/L	1.0 U	1.0 U	NA	NA	NA	NA	1.0 U	1.0 U	1.0 UB
Vanadium	4	4	27	ug/L	0.83 J	0.36 JB	NA	NA	NA	NA	0.11 J	1.4 J	1.1 J
Zinc	1,800	5,000	170	ug/L	10 U	2.2 JB	NA	NA	NA	NA	10 U	8.0 JB	10 UB
<b>Inorganics-Filtered</b>													
Antimony (dissolved)	6	6	130	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (dissolved)	10	10	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (dissolved)	2,000	2,000	670	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (dissolved)	4	4	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (dissolved)	5	5	2.5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (dissolved)	--	--	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (dissolved)	20	20	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (dissolved)	30	95	13	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (dissolved)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (dissolved)	1	1	14	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (dissolved)	50	50	1,300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (dissolved)	--	--	0.0013	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (dissolved)	36	110	73	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (dissolved)	50	50	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (dissolved)	5.9	19	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (dissolved)	2	2	3.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (dissolved)	4	4	27	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (dissolved)	1,800	5,000	170	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous</b>													
Alkalinity, total (as CaCO3)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	--	--	--	none	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	500,000	500,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Field</b>													
Conductivity, field	--	--	--	mS/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity, field	--	--	--	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved oxygen (DO), field	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation reduction potential (ORP), field	--	--	--	millivolts	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, ambient	--	--	--	deg f	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, field	--	--	--	deg c	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity (field)	--	--	--	NTU	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dioxins/Furans</b>													
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	--	pg/L	24 JB	16 Jq	NA	NA	NA	NA	11 JB	95 U	NA
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	--	--	--	pg/L	17 JB	14 J	NA	NA	NA	NA	76 JB	2.6 JqB	NA

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1,2,3,4,6,7,8-HpCDD	--	--	--	pg/L	7.9 JB	5.3 J	NA	NA	NA	NA	11 JB	48 U	NA
1,2,3,4,6,7,8-HpCDF	--	--	--	pg/L	30 JB	28 J	NA	NA	NA	NA	11 JB	48 U	NA
1,2,3,4,7,8,9-HpCDF	--	--	--	pg/L	50 U	47 U	NA	NA	NA	NA	51 U	48 U	NA
1,2,3,4,7,8-HxCDD	--	--	--	pg/L	50 U	47 U	NA	NA	NA	NA	51 U	48 U	NA
1,2,3,4,7,8-HxCDF	--	--	--	pg/L	50 U	47 U	NA	NA	NA	NA	51 U	48 U	NA
1,2,3,6,7,8-HxCDD	--	--	--	pg/L	2.2 JB	47 U	NA	NA	NA	NA	2.0 Jq	48 U	NA
1,2,3,6,7,8-HxCDF	--	--	--	pg/L	50 U	47 U	NA	NA	NA	NA	51 U	48 U	NA
1,2,3,7,8,9-HxCDD	--	--	--	pg/L	0.69 JB	47 U	NA	NA	NA	NA	51 U	48 U	NA
1,2,3,7,8,9-HxCDF	--	--	--	pg/L	50 U	47 U	NA	NA	NA	NA	51 U	48 U	NA
1,2,3,7,8-PeCDD	--	--	--	pg/L	50 U	47 U	NA	NA	NA	NA	51 U	48 U	NA
1,2,3,7,8-PeCDF	--	--	--	pg/L	50 U	47 U	NA	NA	NA	NA	51 U	48 U	NA
2,3,4,6,7,8-HxCDF	--	--	--	pg/L	50 U	47 U	NA	NA	NA	NA	51 U	48 U	NA
2,3,4,7,8-PeCDF	--	--	--	pg/L	50 U	47 U	NA	NA	NA	NA	51 U	48 U	NA
2,3,7,8-TCDD	<b>30</b>	<b>30</b>	<b>10</b>	pg/L	10 U	9.5 U	NA	NA	NA	NA	10 U	9.5 U	NA
2,3,7,8-TCDF	--	--	--	pg/L	10 U	9.5 U	NA	NA	NA	NA	10 U	9.5 U	NA
Total heptachlorodibenzofuran (HpCDF)	--	--	--	pg/L	92 B	86	NA	NA	NA	NA	33 JB	48 U	NA
Total heptachlorodibenzo-p-dioxin (HpCDD)	--	--	--	pg/L	14 JBq	11 Jq	NA	NA	NA	NA	24 JB	48 U	NA
Total hexachlorodibenzofuran (HxCDF)	--	--	--	pg/L	31 JB	33 J	NA	NA	NA	NA	11 JB	48 U	NA
Total hexachlorodibenzo-p-dioxin (HxCDD)	--	--	--	pg/L	14 JBq	6.1 J	NA	NA	NA	NA	12 Jq	48 U	NA
Total pentachlorodibenzofuran (PeCDF)	--	--	--	pg/L	14 JBq	8.1 Jq	NA	NA	NA	NA	51 U	48 U	NA
Total pentachlorodibenzo-p-dioxin (PeCDD)	--	--	--	pg/L	50 U	47 U	NA	NA	NA	NA	51 U	48 U	NA
Total TCDF	--	--	--	pg/L	NA	9.5 U	NA	NA	NA	NA	NA	9.5 U	NA
Total tetrachlorodibenzofuran (TCDF)	--	--	--	pg/L	10 U	NA	NA	NA	NA	NA	10 U	NA	NA
Total tetrachlorodibenzo-p-dioxin (TCDD)	--	--	--	pg/L	10 U	9.5 U	NA	NA	NA	NA	10 U	9.5 U	NA

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<b>PCBs</b>													
Aroclor-1016	0.5	0.5	0.2	ug/L	0.095 U	0.19 U	0.096 U	NA	0.48 U	0.95 U	0.48 U	R	0.21 U
Aroclor-1221	0.5	0.5	0.2	ug/L	0.095 U	0.19 U	0.096 U	NA	0.48 U	0.95 U	0.48 U	R	0.21 U
Aroclor-1232	0.5	0.5	0.2	ug/L	0.095 U	0.19 U	0.096 U	NA	0.48 U	0.95 U	0.48 U	R	0.21 U
Aroclor-1242	0.5	0.5	0.2	ug/L	0.095 U	0.19 U	0.096 U	NA	0.48 U	0.95 U	0.48 U	R	0.21 U
Aroclor-1248	0.5	0.5	0.2	ug/L	0.095 U	0.19 U	0.096 U	NA	0.48 U	0.95 U	0.48 U	R	0.21 U
Aroclor-1254	0.5	0.5	0.2	ug/L	0.095 U	0.19 U	0.096 U	NA	0.48 U	0.95 U	0.48 U	R	0.21 U
Aroclor-1260	0.5	0.5	0.2	ug/L	0.095 U	0.19 U	0.096 U	NA	0.48 U	0.95 U	0.48 U	R	0.21 U
<b>PCBs-Filtered</b>													
Aroclor-1016 (PCB-1016) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Volatile Organics</b>													
1,2,3-Trimethylbenzene	60	130	--	ug/L	NA	NA	NA	1 U	NA	NA	NA	NA	NA
2-Methylnaphthalene	24	76	19	ug/L	NA	NA	NA	5 U	NA	NA	NA	NA	NA
Acrylonitrile	2	6.8	2	ug/L	NA	NA	NA	2 U	NA	NA	NA	NA	NA
Hexachloroethane	5	13	6.7	ug/L	NA	NA	NA	5 U	NA	NA	NA	NA	NA
Iodomethane	--	--	--	ug/L	NA	NA	NA	1 U	NA	NA	NA	NA	NA
m&p-Xylene	--	--	--	ug/L	NA	NA	NA	2 U	NA	NA	NA	NA	NA
Tetrahydrofuran	3,600	17,000	11,000	ug/L	NA	NA	NA	90 U	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	--	--	--	ug/L	NA	NA	NA	1 U	NA	NA	NA	NA	NA
Acetone	5,300	17,000	1,700	ug/L	35	25 U	25 U	50 U	12 J	3.3 J	6.2 J	4.6 J	25
Benzene	5	5	200	ug/L	1.0 U	1.0 U	1.0 U	1 U	0.61 J	0.63 J	0.59 J	0.68 J	0.56 J
Bromobenzene	47	150	--	ug/L	NA	NA	NA	1 U	NA	NA	NA	NA	NA
Bromodichloromethane	80	80	--	ug/L	1.0 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	80	80	--	ug/L	1.0 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	120	380	5	ug/L	1.0 U	1.0 U	1.0 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	2,400	11,000	2,200	ug/L	25 U	25 U	25 U	25 U	1.5 J	25 U	0.58 J	25 U	0.93 J
n-Butylbenzene	270	870	--	ug/L	NA	NA	NA	1 U	NA	NA	NA	NA	NA
sec-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	1 U	NA	NA	NA	NA	NA
tert-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	1 U	NA	NA	NA	NA	NA
Carbon Disulfide	440	1,800	--	ug/L	5.0 U	5.0 U	1.2 J	5 U	5.0 U	0.15 J	5.0 U	18	5.0 U
Carbon Tetrachloride	5	5	38	ug/L	1.0 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CFC-11	1,800	5,700	--	ug/L	1.0 U*	1.0 U	1.0 U	1 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U
CFC-12	30	94	--	ug/L	1.0 U*	1.0 U	1.0 U	5 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U
Chlorobenzene	100	100	25	ug/L	1.0 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobromomethane	--	--	--	ug/L	NA	NA	NA	1 U	NA	NA	NA	NA	NA
Chlorodibromomethane	80	80	--	ug/L	1.0 U	1.0 U	1.0 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	240	760	1,100	ug/L	1.0 U	1.0 U	1.0 U	5 U	8.6	20	26	17	15
Chloroform	80	80	350	ug/L	1.0 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	220	1,100	--	ug/L	1.0 U	1.0 U	1.0 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	--	--	--	ug/L	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cymene	--	--	--	ug/L	NA	NA	NA	5 U	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.2	0.2	--	ug/L	1.0 U	1.0 U	1.0 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	0.05	0.05	5.7	ug/L	1.0 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromomethane	18	57	--	ug/L	NA	NA	NA	5 U	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	600	13	ug/L	1.0 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	12	38	28	ug/L	1.0 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	75	75	17	ug/L	1.0 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW10-01 02/18/13 TW10-01_021813	TW10-01 06/24/13 TW10-01_062413	TW10-01 12/03/13 TW10-01_20131203	TW10-01 09/19/16 TW10-01_091916	TW10-02 10/04/12 TW10-02_100412	TW10-02 02/19/13 TW10-02_021913	TW10-02 06/25/13 TW10-02_062513	TW10-02 12/03/13 TW10-02_20131203	TW10-02 05/18/16 TW10-02-GW-051816
1,1-Dichloroethane	1,200	3,800	740	ug/L	1.0 U	1.0 U	1.0 U	1 U	1.4	5.1	26	16	2.4
1,2-Dichloroethane	5	5	360	ug/L	1.0 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	7	7	130	ug/L	1.0 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	70	70	620	ug/L	1.0 U	1.0 U	1.0 U	1 U	0.58 J	0.49 J	0.38 J	1.0 U	0.36 J
trans-1,2-Dichloroethene	100	100	1,500	ug/L	1.0 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichloromethane	5	5	1,500	ug/L	5.0 U	5.0 U	5.0 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	5	5	230	ug/L	1.0 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	--	--	--	ug/L	1.0 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	--	--	--	ug/L	1.0 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Diethyl Ether	5	5	--	ug/L	NA	NA	NA	10 U	NA	NA	NA	NA	NA
1,4-Dioxane	7.2	37	2,800	ug/L	NA	NA	NA	3	NA	NA	NA	NA	62
Ethylbenzene	66	74	18	ug/L	1.0 U	1.0 U	1.0 U	1 U	2.6	2.6	2.3	2.3	2.4
Isopropylbenzene	590	1,900	28	ug/L	5.0 U	5.0 U	5.0 U	5 U	0.93 J	0.48 J	0.40 J	0.45 J	0.46 J
Methyl acetate	--	--	--	ug/L	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U
Methyl N-Butyl Ketone	50	94	--	ug/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Methylcyclohexane	--	--	--	ug/L	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-pentanone	300	940	--	ug/L	50 U	50 U	50 U	50 U	0.50 J	0.38 J	0.37 J	0.43 J	3.9 J
Methyl tert-butyl ether	40	40	7,100	ug/L	5.0 U	5.0 U	5.0 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	590	1,900	11	ug/L	NA	NA	NA	5 U	NA	NA	NA	NA	NA
n-Propylbenzene	590	1,900	--	ug/L	NA	NA	NA	1 U	NA	NA	NA	NA	NA
Styrene	100	100	80	ug/L	1.0 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1,2-Tetrachloroethane	28	140	--	ug/L	NA	NA	NA	1 U	NA	NA	NA	NA	NA
1,1,1,2,2-Tetrachloroethane	3.6	18	78	ug/L	1.0 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	5	60	ug/L	1.0 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	470	790	270	ug/L	1.0 U	1.0 U	1.0 U	1 U	5.4	5.1	4.5	4.8	3.4
1,2,3-Trichlorobenzene	16	51	--	ug/L	NA	NA	NA	5 U	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	70	99	ug/L	1.0 U	1.0 U	1.0 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	200	200	89	ug/L	1.0 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	5	5	330	ug/L	1.0 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	5	200	ug/L	1.0 U	1.0 U	1.0 U	1 U	0.27 J	0.23 J	0.19 J	0.18 J	0.24 J
1,2,3-Trichloropropane	1	1	--	ug/L	NA	NA	NA	1 U	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	160,000	170,000	32	ug/L	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	60	63	17	ug/L	NA	NA	NA	1 U	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	60	72	45	ug/L	NA	NA	NA	1 U	NA	NA	NA	NA	NA
Vinyl Chloride	2	2	13	ug/L	1.0 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	--	--	--	ug/L	NA	NA	NA	1 U	NA	NA	NA	NA	NA
Total Xylenes	280	280	41	ug/L	2.0 U	2.0 U	2.0 U	NA	14	14	9.9	12	14
<b>Semivolatile Organics</b>													
1,1'-Biphenyl	--	--	--	ug/L	0.95 U	0.95 U	9.6 U	NA	24 J	9.5 U	9.5 U	50 U	3.7 U
2,2'-Oxybis(1-Chloropropane)	--	--	--	ug/L	0.95 U	0.95 U	9.6 U	NA	24 U	9.5 U	9.5 U	50 U	3.7 U
2,4,5-Trichlorophenol	180	570	--	ug/L	4.8 U	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U
2,4,6-Trichlorophenol	40	170	5	ug/L	3.8 U	3.8 U	38 U	NA	95 U	38 U	38 U	200 U	15 U
2,4-Dichlorophenol	80	330	11	ug/L	9.5 U	9.5 U	96 U	NA	240 U	95 U	95 U	500 U	37 U
2,4-Dimethylphenol	120	380	380	ug/L	4.8 U	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U
2,4-Dinitrophenol	12	38	19	ug/L	19 U	19 U	190 U	NA	480 U	190 U	190 U	1,000 U	74 U
2,4-Dinitrotoluene	1.1	5.5	--	ug/L	4.8 U	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U
2,6-Dinitrotoluene	--	--	--	ug/L	4.8 U	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U
2-Chloronaphthalene	470	1,500	--	ug/L	4.8 U	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U
2-Chlorophenol	32	130	18	ug/L	4.8 U	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U
2-Methylnaphthalene	24	76	19	ug/L	4.8 U	4.8 U	48 U	NA	81 J	48 U	48 U	9.7 J	19 U
2-Methylphenol	8,000	33,000	30	ug/L	4.8 U	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U
2-Nitroaniline	--	--	--	ug/L	19 U	19 U	190 U	NA	480 U	190 U	190 U	1,000 U	74 U
2-Nitrophenol	12	38	--	ug/L	4.8 U	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U
3,3'-Dichlorobenzidine	1.6	8.2	0.3	ug/L	4.8 U	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U

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**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

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3-Nitroaniline	--	--	--	ug/L	19 U	19 U	190 U	NA	480 U	190 U	190 U	1,000 U	74 U
4,6-Dinitro-2-methylphenol	20	20	--	ug/L	19 U	19 U	190 U	NA	480 U	190 U	190 U	1,000 U	74 U
4-Bromophenyl-phenylether	--	--	--	ug/L	4.8 U	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U
4-Chloro-3-Methylphenol	400	1,700	7.4	ug/L	4.8 U	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U
4-Chloroaniline	3	9.4	--	ug/L	1.9 U	1.9 U	19 U	NA	48 U	19 U	19 U	100 U	7.4 U
4-Chlorophenyl-phenylether	--	--	--	ug/L	4.8 U	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U
4-Methylphenol	--	--	--	ug/L	4.8 U	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U
4-Nitroaniline	--	--	--	ug/L	19 U	19 U	190 U	NA	480 U	190 U	190 U	1,000 U	74 U
4-Nitrophenol	--	--	--	ug/L	19 U	19 U	190 U	NA	480 U	190 U	190 U	1,000 U	74 U
Acenaphthene	360	1,100	38	ug/L	4.8 U	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U
Acenaphthylene	360	1,100	--	ug/L	4.8 U	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U
Acetophenone	3,200	13,000	--	ug/L	0.95 U	0.95 U	9.6 U	NA	24 U	9.5 U	9.5 U	50 U	3.7 U
Anthracene	43	43	--	ug/L	4.8 U	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U
Atrazine	3	3	7.3	ug/L	0.95 U	0.95 U*	9.6 U	NA	24 U	9.5 U	9.5 U	50 U	3.7 U
Benzaldehyde	--	--	--	ug/L	0.95 U*	0.95 U	9.6 U	NA	24 U	9.5 U*	9.5 U	50 U	3.7 U
Benzo(a)anthracene	2.3	9.4	--	ug/L	0.95 U	0.95 U	9.6 U	NA	24 U	9.5 U	9.5 U	50 U	3.7 U
Benzo(a)pyrene	0.2	0.2	--	ug/L	0.95 U	0.95 U	9.6 U	NA	24 U	9.5 U	9.5 U	50 U	3.7 U
Benzo(b)fluoranthene	1.5	1.5	--	ug/L	0.95 U	0.95 U	9.6 U	NA	24 U	9.5 U	9.5 U	50 U	3.7 U
Benzo(g,h,i)perylene	1	1	--	ug/L	0.95 U	0.95 U	9.6 U	NA	24 U	9.5 U	9.5 U	50 U	3.7 U
Benzo(k)fluoranthene	1	1	--	ug/L	0.95 U	0.95 U	9.6 U	NA	24 U	9.5 U	9.5 U	50 U	3.7 U
bis(2-Chloroethoxy)methane	--	--	--	ug/L	4.8 U	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U
bis(2-Chloroethyl)ether	1	3.3	1	ug/L	0.95 U	0.95 U	9.6 U	NA	24 U	9.5 U	9.5 U	50 U	3.7 U
bis(2-Ethylhexyl)phthalate	6	6	14	ug/L	0.89 JB	4.8 U	1.8 J	NA	120 U	48 U	48 U	250 U	19 U
Butylbenzylphthalate	80	330	67	ug/L	4.8 U	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U
Caprolactam	2,000	9,400	--	ug/L	4.8 U	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U
Carbazole	10	38	10	ug/L	9.5 U	9.5 U	96 U	NA	11 J	95 U	95 U	2.0 J	37 U
Chrysene	2	2	--	ug/L	0.95 U	0.95 U	9.6 U	NA	24 U	9.5 U	9.5 U	50 U	3.7 U
Dibenzo(a,h)anthracene	2	2.5	--	ug/L	1.9 U	1.9 U	19 U	NA	48 U	19 U	19 U	100 U	7.4 U
Dibenzofuran	5.9	19	4	ug/L	3.8 U	3.8 U	38 U	NA	95 U	38 U	38 U	200 U	15 U
Diethylphthalate	4,700	15,000	110	ug/L	4.8 U	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U
Dimethylphthalate	590	1,900	--	ug/L	4.8 U	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U
Di-n-Butylphthalate	27	110	9.7	ug/L	4.8 U	4.8 U	48 UB	NA	120 U	48 U	48 U	250 U	19 U
Di-n-Octylphthalate	22	22	--	ug/L	4.8 U	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U
Fluoranthene	240	260	1.6	ug/L	0.95 U	0.95 U	9.6 U	NA	24 U	9.5 U	9.5 U	50 U	3.7 U
Fluorene	240	760	12	ug/L	4.8 U	4.8 U	48 U	NA	16 J	1.2 J	48 U	2.1 J	1.1 J
Hexachlorobenzene	1	1	0.2	ug/L	0.19 U	0.19 U	1.9 U	NA	4.8 U	1.9 U	1.9 U	10 U	0.74 U
Hexachlorocyclopentadiene	50	50	--	ug/L	4.8 U*	4.8 U	48 U	NA	120 U	48 U*	48 U	250 U	19 U
Hexachloroethane	5	13	6.7	ug/L	4.8 U	4.8 U	48 UJ	NA	120 U	48 U	48 U	250 UJ	19 U
Indeno(1,2,3-cd)pyrene	2	2	--	ug/L	1.9 U	1.9 U	19 U	NA	48 U	19 U	19 U	100 U	7.4 U
Isophorone	760	3,800	1,300	ug/L	4.8 U	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U
Nitrobenzene	12	38	180	ug/L	2.9 U	2.9 U	29 U	NA	71 U	29 U	29 U	150 U	11 U
N-Nitroso-di-n-propylamine	5	5	--	ug/L	4.8 U	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U
N-Nitrosodiphenylamine	150	750	--	ug/L	4.8 U	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U
Pentachlorophenol	1	1	--	ug/L	4.8 U	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U
Phenanthrene	180	570	2	ug/L	1.9 U	1.9 U	19 U	NA	18 J	19 U	19 U	3.0 J	7.4 U
Phenol	1,200	5,700	450	ug/L	4.8 U	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U
Pyrene	140	140	--	ug/L	4.8 U	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U
Hexachloro-1,3-Butadiene	5.9	19	0.053	ug/L	0.95 U	0.95 U	9.6 UJ	NA	24 U	9.5 U	9.5 U	50 UJ	3.7 U
Naphthalene	590	1,900	11	ug/L	4.8 U	4.8 U	48 U	NA	73 J	3.5 J	48 U	9.7 J	3.5 J
<b>Inorganics</b>													
Antimony	6	6	130	ug/L	0.075 J	2.0 U	NA	NA	2.0 UB	0.098 J	2.0 U	NA	2.0 U
Arsenic	10	10	10	ug/L	2.7	2.1 B	1.5 J	NA	58	71	77 B	73 J	71
Barium	2,000	2,000	670	ug/L	290 B	310 B	290 J	NA	210 B	160 B	180 B	170 J	180 B
Beryllium	4	4	6.7	ug/L	0.048 J	1.0 U	NA	NA	1.0 U	0.037 J	0.062 J	NA	0.11 JB

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Cadmium	5	5	2.5	ug/L	0.50 U	0.50 U	0.052 J	NA	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Calcium	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	100	11	ug/L	3.5	2.1	2.1 J	NA	2.1	2.1	1.5 JB	0.89 J	0.71 J
Cobalt	20	20	100	ug/L	1.6 B	1.3	NA	NA	7.2	8.1 B	8.0 B	NA	7.5
Copper	30	95	13	ug/L	2.3	0.88 JB	NA	NA	2.0 UB	1.3 J	0.87 JB	NA	2.0 U
Cyanide (total)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	300	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1	1	14	ug/L	0.44 JB	0.15 J	1.0 UBJ	NA	0.18 J	0.21 JB	0.19 JB	1.0 UJ	1.0 U
Magnesium	330,000	1,000,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	50	1,300	ug/L	140 B	120	NA	NA	380	400 B	440 B	NA	490
Mercury	2	2	0.0013	ug/L	0.20 U	0.20 U	0.20 U	NA	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	36	110	73	ug/L	5.2	2.9	NA	NA	21	20	23 B	NA	18 B
Selenium	50	50	5	ug/L	0.73 J	2.0 U	2.0 U	NA	0.63 J	2.0	1.4 J	0.55 J	0.50 J
Silver	5.9	19	0.2	ug/L	0.20 U	0.20 U	0.20 U	NA	0.20 U	0.20 U	0.012 JB	0.20 U	0.20 U
Thallium	2	2	3.7	ug/L	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U
Vanadium	4	4	27	ug/L	1.1 J	0.88 J	NA	NA	1.3 J	1.9 J	1.6 JB	NA	1.5 J
Zinc	1,800	5,000	170	ug/L	3.1 J	2.4 JB	NA	NA	10 UB	2.5 J	8.3 JB	NA	10 U
<b>Inorganics-Filtered</b>													
Antimony (dissolved)	6	6	130	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (dissolved)	10	10	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (dissolved)	2,000	2,000	670	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (dissolved)	4	4	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (dissolved)	5	5	2.5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (dissolved)	--	--	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (dissolved)	20	20	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (dissolved)	30	95	13	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (dissolved)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (dissolved)	1	1	14	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (dissolved)	50	50	1,300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (dissolved)	--	--	0.0013	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (dissolved)	36	110	73	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (dissolved)	50	50	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (dissolved)	5.9	19	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (dissolved)	2	2	3.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (dissolved)	4	4	27	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (dissolved)	1,800	5,000	170	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Miscellaneous</b>													
Alkalinity, total (as CaCO3)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	--	--	--	none	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	500,000	500,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Field</b>													
Conductivity, field	--	--	--	mS/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity, field	--	--	--	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved oxygen (DO), field	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation reduction potential (ORP), field	--	--	--	millivolts	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, ambient	--	--	--	deg f	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, field	--	--	--	deg c	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity (field)	--	--	--	NTU	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dioxins/Furans</b>													
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	--	pg/L	100 U	95 U	NA	NA	NA	19 JB	13 Jq	NA	NA
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	--	--	--	pg/L	2.4 JBq	95 U	NA	NA	NA	42 JB	39 J	NA	NA

**Table 1**  
**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW10-01 02/18/13 TW-10-01_021813	TW10-01 06/24/13 TW-10-01_062413	TW10-01 12/03/13 TW10-01_20131203	TW10-01 09/19/16 TW-10-01_091916	TW10-02 10/04/12 TW-10-02_100412	TW10-02 02/19/13 TW-10-02_021913	TW10-02 06/25/13 TW-10-02_062513	TW10-02 12/03/13 TW10-02_20131203	TW10-02 05/18/16 TW-10-02-GW-051816
1,2,3,4,6,7,8-HpCDD	--	--	--	pg/L	0.89 JB	48 U	NA	NA	NA	9.8 JB	8.8 J	NA	NA
1,2,3,4,6,7,8-HpCDF	--	--	--	pg/L	0.59 JBq	48 U	NA	NA	NA	21 JB	16 Jq	NA	NA
1,2,3,4,7,8,9-HpCDF	--	--	--	pg/L	50 U	48 U	NA	NA	NA	50 U	48 U	NA	NA
1,2,3,4,7,8-HxCDD	--	--	--	pg/L	50 U	48 U	NA	NA	NA	50 U	48 U	NA	NA
1,2,3,4,7,8-HxCDF	--	--	--	pg/L	50 U	48 U	NA	NA	NA	50 U	48 U	NA	NA
1,2,3,6,7,8-HxCDD	--	--	--	pg/L	50 U	48 U	NA	NA	NA	1.2 JBq	48 U	NA	NA
1,2,3,6,7,8-HxCDF	--	--	--	pg/L	50 U	48 U	NA	NA	NA	50 U	48 U	NA	NA
1,2,3,7,8,9-HxCDD	--	--	--	pg/L	50 U	48 U	NA	NA	NA	50 U	48 U	NA	NA
1,2,3,7,8,9-HxCDF	--	--	--	pg/L	50 U	48 U	NA	NA	NA	50 U	48 U	NA	NA
1,2,3,7,8-PeCDD	--	--	--	pg/L	50 U	48 U	NA	NA	NA	50 U	48 U	NA	NA
1,2,3,7,8-PeCDF	--	--	--	pg/L	50 U	48 U	NA	NA	NA	50 U	48 U	NA	NA
2,3,4,6,7,8-HxCDF	--	--	--	pg/L	50 U	48 U	NA	NA	NA	50 U	48 U	NA	NA
2,3,4,7,8-PeCDF	--	--	--	pg/L	50 U	48 U	NA	NA	NA	50 U	48 U	NA	NA
2,3,7,8-TCDD	<b>30</b>	<b>30</b>	<b>10</b>	pg/L	10 U	9.5 U	NA	NA	NA	9.9 U	9.6 U	NA	NA
2,3,7,8-TCDF	--	--	--	pg/L	10 U	9.5 U	NA	NA	NA	9.9 U	9.6 U	NA	NA
Total heptachlorodibenzofuran (HpCDF)	--	--	--	pg/L	0.59 JBq	48 U	NA	NA	NA	60 B	52 q	NA	NA
Total heptachlorodibenzo-p-dioxin (HpCDD)	--	--	--	pg/L	2.0 JBq	48 U	NA	NA	NA	22 JB	21 J	NA	NA
Total hexachlorodibenzofuran (HxCDF)	--	--	--	pg/L	50 U	48 U	NA	NA	NA	19 JBq	17 Jq	NA	NA
Total hexachlorodibenzo-p-dioxin (HxCDD)	--	--	--	pg/L	50 U	48 U	NA	NA	NA	6.0 JBq	2.3 Jq	NA	NA
Total pentachlorodibenzofuran (PeCDF)	--	--	--	pg/L	50 U	48 U	NA	NA	NA	50 U	48 U	NA	NA
Total pentachlorodibenzo-p-dioxin (PeCDD)	--	--	--	pg/L	50 U	48 U	NA	NA	NA	50 U	48 U	NA	NA
Total TCDF	--	--	--	pg/L	NA	9.5 U	NA	NA	NA	NA	9.6 U	NA	NA
Total tetrachlorodibenzofuran (TCDF)	--	--	--	pg/L	10 U	NA	NA	NA	NA	9.9 U	NA	NA	NA
Total tetrachlorodibenzo-p-dioxin (TCDD)	--	--	--	pg/L	10 U	9.5 U	NA	NA	NA	9.9 U	9.6 U	NA	NA

**Table 1**  
**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW-MD-01 07/30/14 TW-MD-01(073014)	TW-MD-01 09/04/14 TW-MD-01_090414	TW-MD-01 02/11/15 TW-MD-01 (02112015)	TW-MD-01 03/31/15 TW-MD-01 (03312015)	TW-MD-01 05/20/15 TW-MD-01_05202015	TW-MD-01 12/21/16 TWMMD-01-GW-122116	TW-MD-01 12/21/16 TWMMD-01-GW-122116DL
<b>PCBs</b>											
Aroclor-1016	0.5	0.5	0.2	ug/L	0.11 U	0.099 U	0.095 U	0.098 U	0.10 U [0.095 U]	NA	NA
Aroclor-1221	0.5	0.5	0.2	ug/L	0.11 U	0.099 U	0.095 U	0.098 U	0.10 U [0.095 U]	NA	NA
Aroclor-1232	0.5	0.5	0.2	ug/L	0.11 U	0.099 U	0.095 U	0.098 U	0.10 U [0.095 U]	NA	NA
Aroclor-1242	0.5	0.5	0.2	ug/L	0.11 U	0.099 U	0.095 U	0.098 U	0.10 U [0.095 U]	NA	NA
Aroclor-1248	0.5	0.5	0.2	ug/L	0.11 U	0.099 U	0.095 U	0.098 U	0.10 U [0.095 U]	NA	NA
Aroclor-1254	0.5	0.5	0.2	ug/L	0.11 U	0.099 U	0.095 U	0.098 U	0.10 U [0.095 U]	NA	NA
Aroclor-1260	0.5	0.5	0.2	ug/L	0.056 J	0.099 U	0.095 U	0.098 U	0.10 U [0.095 U]	NA	NA
<b>PCBs-Filtered</b>											
Aroclor-1016 (PCB-1016) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	0.096 U	0.095 U [0.1 U]	NA	NA
Aroclor-1221 (PCB-1221) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	0.096 U	0.095 U [0.1 U]	NA	NA
Aroclor-1232 (PCB-1232) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	0.096 U	0.095 U [0.1 U]	NA	NA
Aroclor-1242 (PCB-1242) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	0.096 U	0.095 U [0.1 U]	NA	NA
Aroclor-1248 (PCB-1248) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	0.096 U	0.095 U [0.1 U]	NA	NA
Aroclor-1254 (PCB-1254) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	0.096 U	0.095 U [0.1 U]	NA	NA
Aroclor-1260 (PCB-1260) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	0.096 U	0.095 U [0.1 U]	NA	NA
<b>Volatile Organics</b>											
1,2,3-Trimethylbenzene	60	130	--	ug/L	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	24	76	19	ug/L	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	2	6.8	2	ug/L	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	13	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA
Iodomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	2 U	NA
Tetrahydrofuran	3,600	17,000	11,000	ug/L	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Acetone	5,300	17,000	1,700	ug/L	NA	25 U	NA	NA	NA	50 U	NA
Benzene	5	5	200	ug/L	NA	1.0 U	NA	NA	NA	1 U	NA
Bromobenzene	47	150	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	80	80	--	ug/L	NA	1.0 U	NA	NA	NA	1 U	NA
Bromoform	80	80	--	ug/L	NA	1.0 U	NA	NA	NA	1 U	NA
Bromomethane	120	380	5	ug/L	NA	1.0 U	NA	NA	NA	5 U	NA
2-Butanone	2,400	11,000	2,200	ug/L	NA	25 U	NA	NA	NA	25 U	NA
n-Butylbenzene	270	870	--	ug/L	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	440	1,800	--	ug/L	NA	5.0 U	NA	NA	NA	5 U	NA
Carbon Tetrachloride	5	5	38	ug/L	NA	1.0 U	NA	NA	NA	1 U	NA
CFC-11	1,800	5,700	--	ug/L	NA	1.0 U	NA	NA	NA	1 U	NA
CFC-12	30	94	--	ug/L	NA	1.0 U	NA	NA	NA	5 U	NA
Chlorobenzene	100	100	25	ug/L	NA	1.0 U	NA	NA	NA	1 U	NA
Chlorobromomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Chlorodibromomethane	80	80	--	ug/L	NA	1.0 U	NA	NA	NA	5 U	NA
Chloroethane	240	760	1,100	ug/L	NA	1.0 U	NA	NA	NA	5 U	NA
Chloroform	80	80	350	ug/L	NA	1.0 U	NA	NA	NA	1 U	NA
Chloromethane	220	1,100	--	ug/L	NA	1.0 U	NA	NA	NA	5 U	NA
Cyclohexane	--	--	--	ug/L	NA	1.0 U	NA	NA	NA	1 U	NA
Cymene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.2	0.2	--	ug/L	NA	1.0 U	NA	NA	NA	5 U	NA
1,2-Dibromoethane	0.05	0.05	5.7	ug/L	NA	1.0 U	NA	NA	NA	1 U	NA
Dibromomethane	18	57	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	600	13	ug/L	NA	1.0 U	NA	NA	NA	1 U	NA
1,3-Dichlorobenzene	12	38	28	ug/L	NA	1.0 U	NA	NA	NA	1 U	NA
1,4-Dichlorobenzene	75	75	17	ug/L	NA	1.0 U	NA	NA	NA	1 U	NA

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**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW-MD-01 07/30/14 TW-MD-01(073014)	TW-MD-01 09/04/14 TW-MD-01_090414	TW-MD-01 02/11/15 TW-MD-01 (02112015)	TW-MD-01 03/31/15 TW-MD-01 (03312015)	TW-MD-01 05/20/15 TW-MD-01_05202015	TW-MD-01 12/21/16 TWMMD-01-GW-122116	TW-MD-01 12/21/16 TWMMD-01-GW-122116DL
1,1-Dichloroethane	1,200	3,800	740	ug/L	NA	1.0 U	NA	NA	NA	1 U	NA
1,2-Dichloroethane	5	5	360	ug/L	NA	1.0 U	NA	NA	NA	1 U	NA
1,1-Dichloroethene	7	7	130	ug/L	NA	1.0 U	NA	NA	NA	1 U	NA
cis-1,2-Dichloroethene	70	70	620	ug/L	NA	1.0 U	NA	NA	NA	1 U	NA
trans-1,2-Dichloroethene	100	100	1,500	ug/L	NA	1.0 U	NA	NA	NA	1 U	NA
Dichloromethane	5	5	1,500	ug/L	NA	5.0 U	NA	NA	NA	5 U	NA
1,2-Dichloropropane	5	5	230	ug/L	NA	1.0 U	NA	NA	NA	1 U	NA
cis-1,3-Dichloropropene	--	--	--	ug/L	NA	1.0 U	NA	NA	NA	1 U	NA
trans-1,3-Dichloropropene	--	--	--	ug/L	NA	1.0 U	NA	NA	NA	1 U	NA
Diethyl Ether	5	5	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	7.2	37	2,800	ug/L	NA	NA	NA	NA	NA	NA	5 UB
Ethylbenzene	66	74	18	ug/L	NA	1.0 U	NA	NA	NA	1 U	NA
Isopropylbenzene	590	1,900	28	ug/L	NA	5.0 U	NA	NA	NA	1 U	NA
Methyl acetate	--	--	--	ug/L	NA	10 U	NA	NA	NA	10 U	NA
Methyl N-Butyl Ketone	50	94	--	ug/L	NA	50 U	NA	NA	NA	50 U	NA
Methylcyclohexane	--	--	--	ug/L	NA	1.0 U	NA	NA	NA	1 U	NA
4-Methyl-2-pentanone	300	940	--	ug/L	NA	50 U	NA	NA	NA	50 U	NA
Methyl tert-butyl ether	40	40	7,100	ug/L	NA	5.0 U	NA	NA	NA	5 U	NA
Naphthalene	590	1,900	11	ug/L	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Styrene	100	100	80	ug/L	NA	1.0 U	NA	NA	NA	1 U	NA
1,1,1,2-Tetrachloroethane	28	140	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	3.6	18	78	ug/L	NA	1.0 U	NA	NA	NA	1 U	NA
Tetrachloroethene	5	5	60	ug/L	NA	1.0 U	NA	NA	NA	1 U	NA
Toluene	470	790	270	ug/L	NA	1.0 U	NA	NA	NA	1 U	NA
1,2,3-Trichlorobenzene	16	51	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	70	99	ug/L	NA	1.0 U	NA	NA	NA	5 U	NA
1,1,1-Trichloroethane	200	200	89	ug/L	NA	1.0 U	NA	NA	NA	1 U	NA
1,1,2-Trichloroethane	5	5	330	ug/L	NA	1.0 U	NA	NA	NA	1 U	NA
Trichloroethene	5	5	200	ug/L	NA	1.0 U	NA	NA	NA	1 U	NA
1,2,3-Trichloropropane	1	1	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	160,000	170,000	32	ug/L	NA	1.0 U	NA	NA	NA	1 U	NA
1,2,4-Trimethylbenzene	60	63	17	ug/L	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	60	72	45	ug/L	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	2	2	13	ug/L	NA	1.0 U	NA	NA	NA	1 U	NA
o-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	1 U	NA
Total Xylenes	280	280	41	ug/L	NA	2.0 U	NA	NA	NA	NA	NA
<b>Semivolatile Organics</b>											
1,1'-Biphenyl	--	--	--	ug/L	NA	10 U	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	--	--	--	ug/L	NA	10 U	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	180	570	--	ug/L	NA	52 U	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	40	170	5	ug/L	NA	42 U	NA	NA	NA	NA	NA
2,4-Dichlorophenol	80	330	11	ug/L	NA	100 U	NA	NA	NA	NA	NA
2,4-Dimethylphenol	120	380	380	ug/L	NA	52 U	NA	NA	NA	NA	NA
2,4-Dinitrophenol	12	38	19	ug/L	NA	210 U	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	1.1	5.5	--	ug/L	NA	52 U	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	--	--	--	ug/L	NA	52 U	NA	NA	NA	NA	NA
2-Chloronaphthalene	470	1,500	--	ug/L	NA	52 U	NA	NA	NA	NA	NA
2-Chlorophenol	32	130	18	ug/L	NA	52 U	NA	NA	NA	NA	NA
2-Methylnaphthalene	24	76	19	ug/L	NA	52 U	NA	NA	NA	NA	NA
2-Methylphenol	8,000	33,000	30	ug/L	NA	52 U	NA	NA	NA	NA	NA
2-Nitroaniline	--	--	--	ug/L	NA	210 U	NA	NA	NA	NA	NA
2-Nitrophenol	12	38	--	ug/L	NA	52 U	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	1.6	8.2	0.3	ug/L	NA	52 U	NA	NA	NA	NA	NA

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**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW-MD-01 07/30/14 TW-MD-01(073014)	TW-MD-01 09/04/14 TW-MD-01_090414	TW-MD-01 02/11/15 TW-MD-01 (02112015)	TW-MD-01 03/31/15 TW-MD-01 (03312015)	TW-MD-01 05/20/15 TW-MD-01_05202015	TW-MD-01 12/21/16 TWMMD-01-GW-122116	TW-MD-01 12/21/16 TWMMD-01-GW-122116DL
3-Nitroaniline	--	--	--	ug/L	NA	210 U	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	20	20	--	ug/L	NA	210 U	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	--	--	--	ug/L	NA	52 U	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	400	1,700	7.4	ug/L	NA	52 U	NA	NA	NA	NA	NA
4-Chloroaniline	3	9.4	--	ug/L	NA	21 U	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	--	--	--	ug/L	NA	52 U	NA	NA	NA	NA	NA
4-Methylphenol	--	--	--	ug/L	NA	52 U	NA	NA	NA	NA	NA
4-Nitroaniline	--	--	--	ug/L	NA	210 U	NA	NA	NA	NA	NA
4-Nitrophenol	--	--	--	ug/L	NA	210 U	NA	NA	NA	NA	NA
Acenaphthene	360	1,100	38	ug/L	NA	52 U	NA	NA	NA	NA	NA
Acenaphthylene	360	1,100	--	ug/L	NA	52 U	NA	NA	NA	NA	NA
Acetophenone	3,200	13,000	--	ug/L	NA	10 U	NA	NA	NA	NA	NA
Anthracene	43	43	--	ug/L	NA	52 U	NA	NA	NA	NA	NA
Atrazine	3	3	7.3	ug/L	NA	10 U	NA	NA	NA	NA	NA
Benzaldehyde	--	--	--	ug/L	NA	10 U*	NA	NA	NA	NA	NA
Benzo(a)anthracene	2.3	9.4	--	ug/L	NA	10 U	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.2	0.2	--	ug/L	NA	10 U	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	1.5	1.5	--	ug/L	NA	10 U	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	1	1	--	ug/L	NA	10 U	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1	1	--	ug/L	NA	10 U	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	--	--	--	ug/L	NA	52 U	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	1	3.3	1	ug/L	NA	10 U	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	6	6	14	ug/L	NA	3.4 JB	NA	NA	NA	NA	NA
Butylbenzylphthalate	80	330	67	ug/L	NA	52 U	NA	NA	NA	NA	NA
Caprolactam	2,000	9,400	--	ug/L	NA	4.7 JB	NA	NA	NA	NA	NA
Carbazole	10	38	10	ug/L	NA	100 U	NA	NA	NA	NA	NA
Chrysene	2	2	--	ug/L	NA	10 U	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	2	2.5	--	ug/L	NA	21 U	NA	NA	NA	NA	NA
Dibenzofuran	5.9	19	4	ug/L	NA	42 U	NA	NA	NA	NA	NA
Diethylphthalate	4,700	15,000	110	ug/L	NA	52 U	NA	NA	NA	NA	NA
Dimethylphthalate	590	1,900	--	ug/L	NA	52 U	NA	NA	NA	NA	NA
Di-n-Butylphthalate	27	110	9.7	ug/L	NA	1.9 JB	NA	NA	NA	NA	NA
Di-n-Octylphthalate	22	22	--	ug/L	NA	52 U	NA	NA	NA	NA	NA
Fluoranthene	240	260	1.6	ug/L	NA	10 U	NA	NA	NA	NA	NA
Fluorene	240	760	12	ug/L	NA	52 U	NA	NA	NA	NA	NA
Hexachlorobenzene	1	1	0.2	ug/L	NA	2.1 U	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	50	50	--	ug/L	NA	52 U	NA	NA	NA	NA	NA
Hexachloroethane	5	13	6.7	ug/L	NA	52 U	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	2	2	--	ug/L	NA	21 U	NA	NA	NA	NA	NA
Isophorone	760	3,800	1,300	ug/L	NA	52 U	NA	NA	NA	NA	NA
Nitrobenzene	12	38	180	ug/L	NA	31 U	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	5	5	--	ug/L	NA	52 U	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	150	750	--	ug/L	NA	52 U	NA	NA	NA	NA	NA
Pentachlorophenol	1	1	--	ug/L	NA	52 U	NA	NA	NA	NA	NA
Phenanthrene	180	570	2	ug/L	NA	21 U	NA	NA	NA	NA	NA
Phenol	1,200	5,700	450	ug/L	NA	52 U	NA	NA	NA	NA	NA
Pyrene	140	140	--	ug/L	NA	52 U	NA	NA	NA	NA	NA
Hexachloro-1,3-Butadiene	5.9	19	0.053	ug/L	NA	10 U	NA	NA	NA	NA	NA
Naphthalene	590	1,900	11	ug/L	NA	52 U	NA	NA	NA	NA	NA
<b>Inorganics</b>											
Antimony	6	6	130	ug/L	0.35 JB	NA	2.0 U	0.21 J	0.22 J [2 U]	NA	NA
Arsenic	10	10	10	ug/L	3.4 B	NA	1.2 J	1.4 JB	3.5 B [2.1 B]	NA	NA
Barium	2,000	2,000	670	ug/L	110 B	NA	91 B	92	93 [93]	NA	NA
Beryllium	4	4	6.7	ug/L	0.10 J	NA	1.0 U	0.10 J	0.29 J [0.071 JB]	NA	NA

**Table 1**  
**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW-MD-01 07/30/14 TW-MD-01(073014)	TW-MD-01 09/04/14 TW-MD-01_090414	TW-MD-01 02/11/15 TW-MD-01 (02112015)	TW-MD-01 03/31/15 TW-MD-01 (03312015)	TW-MD-01 05/20/15 TW-MD-01_05202015	TW-MD-01 12/21/16 TWMMD-01-GW-122116	TW-MD-01 12/21/16 TWMMD-01-GW-122116DL
Cadmium	5	5	2.5	ug/L	0.11 J	NA	0.20 JB	0.14 JB	0.28 J [0.5 U]	NA	NA
Calcium	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Chromium	100	100	11	ug/L	0.43 JB	NA	1.5 JB	1.3 JB	1.6 JB [1.4 JB]	NA	NA
Cobalt	20	20	100	ug/L	0.54 J	NA	0.38 J	0.42 JB	0.41 J [0.36 JB]	NA	NA
Copper	30	95	13	ug/L	0.63 JB	NA	2.0 U	2.0 U	0.86 JB [2 U]	NA	NA
Cyanide (total)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Iron	300	300	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Lead	1	1	14	ug/L	0.39 JB	NA	1.0 U	1.0 U	0.38 JB [0.11 JB]	NA	NA
Magnesium	330,000	1,000,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Manganese	50	50	1,300	ug/L	1,200	NA	1,000	1,200	1,100 [1,200]	NA	NA
Mercury	2	2	0.0013	ug/L	0.20 U	NA	0.20 U	0.20 U	0.20 U [0.2 U]	NA	NA
Nickel	36	110	73	ug/L	1.8 JB	NA	1.3 J	1.1 J	1.4 JB [1.2 JB]	NA	NA
Selenium	50	50	5	ug/L	0.47 J	NA	0.31 J	0.57 J	1.8 J [0.34 J]	NA	NA
Silver	5.9	19	0.2	ug/L	NA	NA	0.20 U	0.20 U	0.20 U [0.2 U]	NA	NA
Thallium	2	2	3.7	ug/L	1.0 U	NA	1.0 U	1.0 U	0.17 J [1 U]	NA	NA
Vanadium	4	4	27	ug/L	4.0 U	NA	0.55 JB	0.78 JB	1.7 JB [1.8 JB]	NA	NA
Zinc	1,800	5,000	170	ug/L	10 U	NA	10 U	10 U	10 U [10 U]	NA	NA
<b>Inorganics-Filtered</b>											
Antimony (dissolved)	6	6	130	ug/L	NA	NA	2.0 U	2.0 U	2.0 U [2 U]	NA	NA
Arsenic (dissolved)	10	10	10	ug/L	NA	NA	1.1 J	1.3 JB	1.8 JB [2 JB]	NA	NA
Barium (dissolved)	2,000	2,000	670	ug/L	NA	NA	88 B	87	88 [92]	NA	NA
Beryllium (dissolved)	4	4	6.7	ug/L	NA	NA	1.0 U	0.084 J^	1.0 U [0.059 JB]	NA	NA
Cadmium (dissolved)	5	5	2.5	ug/L	NA	NA	0.15 JB	0.11 JB	1.0 U [0.065 J]	NA	NA
Chromium (dissolved)	--	--	11	ug/L	NA	NA	1.5 JB	1.3 JB	1.4 JB [1.4 JB]	NA	NA
Cobalt (dissolved)	20	20	100	ug/L	NA	NA	0.31 J	0.35 JB	0.37 JB [0.37 JB]	NA	NA
Copper (dissolved)	30	95	13	ug/L	NA	NA	2.0 U	2.0 U	2.0 U [2 U]	NA	NA
Iron (dissolved)	--	--	--	ug/L	13,000 B	NA	13,000	14,000	13,000 B [14,000 B]	NA	NA
Lead (dissolved)	1	1	14	ug/L	NA	NA	1.0 U	1.0 U	1.0 U [1 U]	NA	NA
Manganese (dissolved)	50	50	1,300	ug/L	1,200	NA	990	1,100 ^	1,100 [1,200]	NA	NA
Mercury (dissolved)	--	--	0.0013	ug/L	NA	NA	0.20 U	0.20 U	0.00080 [0.00023 J]	NA	NA
Nickel (dissolved)	36	110	73	ug/L	NA	NA	1.2 J	1.1 J	1.4 JB [1.2 JB]	NA	NA
Selenium (dissolved)	50	50	5	ug/L	NA	NA	5.0 U	0.52 J	0.25 J [0.42 J]	NA	NA
Silver (dissolved)	5.9	19	0.2	ug/L	NA	NA	1.0 U	1.0 U	1.0 U [1 U]	NA	NA
Thallium (dissolved)	2	2	3.7	ug/L	NA	NA	2.0 U	2.0 U	2.0 U [2 U]	NA	NA
Vanadium (dissolved)	4	4	27	ug/L	NA	NA	0.47 JB	0.58 JB	1.6 JB [1.7 JB]	NA	NA
Zinc (dissolved)	1,800	5,000	170	ug/L	NA	NA	20 U	20 U	20 U [20 U]	NA	NA
<b>Miscellaneous</b>											
Alkalinity, total (as CaCO3)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Hardness	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
pH (water)	--	--	--	none	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	500,000	500,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
<b>Field</b>											
Conductivity, field	--	--	--	mS/cm	NA	NA	NA	NA	NA	NA	NA
Conductivity, field	--	--	--	umhos/cm	NA	NA	NA	NA	NA	NA	NA
Dissolved oxygen (DO), field	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Oxidation reduction potential (ORP), field	--	--	--	millivolts	NA	NA	NA	NA	NA	NA	NA
Temperature, ambient	--	--	--	deg f	NA	NA	NA	NA	NA	NA	NA
Temperature, field	--	--	--	deg c	NA	NA	NA	NA	NA	NA	NA
Turbidity (field)	--	--	--	NTU	NA	NA	NA	NA	NA	NA	NA
<b>Dioxins/Furans</b>											
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA

**Table 1**  
**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW-MD-01 07/30/14 TW-MD-01(073014)	TW-MD-01 09/04/14 TW-MD-01_090414	TW-MD-01 02/11/15 TW-MD-01 (02112015)	TW-MD-01 03/31/15 TW-MD-01 (03312015)	TW-MD-01 05/20/15 TW-MD-01_05202015	TW-MD-01 12/21/16 TWMD-01-GW-122116	TW-MD-01 12/21/16 TWMD-01-GW-122116DL
1,2,3,4,6,7,8-HpCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,4,6,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,4,7,8-PeCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD	30	30	10	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total heptachlorodibenzofuran (HpCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total heptachlorodibenzo-p-dioxin (HpCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total hexachlorodibenzofuran (HxCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total hexachlorodibenzo-p-dioxin (HxCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total pentachlorodibenzofuran (PeCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total pentachlorodibenzo-p-dioxin (PeCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzofuran (TCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzo-p-dioxin (TCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA

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**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW-MD-01 04/26/17 TW-MD-01_GW-042617	TW-MD-01 05/24/17 TW-MD-01_GW-052417	TW-MD-02 07/29/14 TW-MD-02(072914)	TW-MD-02 09/04/14 TW-MD-02_090414	TW-MD-02 02/11/15 TW-MD-02 (02112015)	TW-MD-02 03/31/15 TW-MD-02 (03312015)	TW-MD-02 05/20/15 TW-MD-02_05202015
<b>PCBs</b>											
Aroclor-1016	0.5	0.5	0.2	ug/L	NA	NA	0.10 U	0.097 U	0.095 U	0.095 U	0.095 U
Aroclor-1221	0.5	0.5	0.2	ug/L	NA	NA	0.10 U	0.097 U	0.095 U	0.095 U	0.095 U
Aroclor-1232	0.5	0.5	0.2	ug/L	NA	NA	0.10 U	0.097 U	0.095 U	0.095 U	0.095 U
Aroclor-1242	0.5	0.5	0.2	ug/L	NA	NA	0.10 U	0.097 U	0.095 U	0.095 U	0.095 U
Aroclor-1248	0.5	0.5	0.2	ug/L	NA	NA	0.10 U	0.097 U	0.095 U	0.095 U	0.095 U
Aroclor-1254	0.5	0.5	0.2	ug/L	NA	NA	0.10 U	0.097 U	0.095 U	0.095 U	0.095 U
Aroclor-1260	0.5	0.5	0.2	ug/L	NA	NA	0.10 U	0.097 U	0.095 U	0.095 U	0.095 U
<b>PCBs-Filtered</b>											
Aroclor-1016 (PCB-1016) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	0.096 U	0.095 U
Aroclor-1221 (PCB-1221) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	0.096 U	0.095 U
Aroclor-1232 (PCB-1232) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	0.096 U	0.095 U
Aroclor-1242 (PCB-1242) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	0.096 U	0.095 U
Aroclor-1248 (PCB-1248) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	0.096 U	0.095 U
Aroclor-1254 (PCB-1254) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	0.096 U	0.095 U
Aroclor-1260 (PCB-1260) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	0.096 U	0.095 U
<b>Volatile Organics</b>											
1,2,3-Trimethylbenzene	60	130	--	ug/L	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	24	76	19	ug/L	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	2	6.8	2	ug/L	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	13	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA
Iodomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	--	--	--	ug/L	2 U	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	3,600	17,000	11,000	ug/L	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Acetone	5,300	17,000	1,700	ug/L	50 U	NA	NA	7.5 J	NA	NA	NA
Benzene	5	5	200	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA
Bromobenzene	47	150	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	80	80	--	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA
Bromoform	80	80	--	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA
Bromomethane	120	380	5	ug/L	5 U	NA	NA	1.0 U	NA	NA	NA
2-Butanone	2,400	11,000	2,200	ug/L	25 U	NA	NA	25 U	NA	NA	NA
n-Butylbenzene	270	870	--	ug/L	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	440	1,800	--	ug/L	5 U	NA	NA	5.0 U	NA	NA	NA
Carbon Tetrachloride	5	5	38	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA
CFC-11	1,800	5,700	--	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA
CFC-12	30	94	--	ug/L	5 U	NA	NA	1.0 U	NA	NA	NA
Chlorobenzene	100	100	25	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA
Chlorobromomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Chlorodibromomethane	80	80	--	ug/L	5 U	NA	NA	1.0 U	NA	NA	NA
Chloroethane	240	760	1,100	ug/L	5 U	NA	NA	1.0 U	NA	NA	NA
Chloroform	80	80	350	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA
Chloromethane	220	1,100	--	ug/L	5 U	NA	NA	1.0 U	NA	NA	NA
Cyclohexane	--	--	--	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA
Cymene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.2	0.2	--	ug/L	5 U	NA	NA	1.0 U	NA	NA	NA
1,2-Dibromoethane	0.05	0.05	5.7	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA
Dibromomethane	18	57	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	600	13	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA
1,3-Dichlorobenzene	12	38	28	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA
1,4-Dichlorobenzene	75	75	17	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA

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**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSI	Units	TW-MD-01 04/26/17 TW-MD-01_GW-042617	TW-MD-01 05/24/17 TW-MD-01_GW-052417	TW-MD-02 07/29/14 TW-MD-02(072914)	TW-MD-02 09/04/14 TW-MD-02_090414	TW-MD-02 02/11/15 TW-MD-02_02112015	TW-MD-02 03/31/15 TW-MD-02_03312015	TW-MD-02 05/20/15 TW-MD-02_05202015
1,1-Dichloroethane	1,200	3,800	740	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA
1,2-Dichloroethane	5	5	360	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA
1,1-Dichloroethene	7	7	130	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA
cis-1,2-Dichloroethene	70	70	620	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA
trans-1,2-Dichloroethene	100	100	1,500	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA
Dichloromethane	5	5	1,500	ug/L	5 U	NA	NA	5.0 U	NA	NA	NA
1,2-Dichloropropane	5	5	230	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA
cis-1,3-Dichloropropene	--	--	--	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA
trans-1,3-Dichloropropene	--	--	--	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA
Diethyl Ether	5	5	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	7.2	37	2,800	ug/L	3 U	NA	NA	NA	NA	NA	NA
Ethylbenzene	66	74	18	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA
Isopropylbenzene	590	1,900	28	ug/L	1 U	NA	NA	5.0 U	NA	NA	NA
Methyl acetate	--	--	--	ug/L	10 U	NA	NA	10 U	NA	NA	NA
Methyl N-Butyl Ketone	50	94	--	ug/L	50 U	NA	NA	50 U	NA	NA	NA
Methylcyclohexane	--	--	--	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA
4-Methyl-2-pentanone	300	940	--	ug/L	50 U	NA	NA	50 U	NA	NA	NA
Methyl tert-butyl ether	40	40	7,100	ug/L	5 U	NA	NA	5.0 U	NA	NA	NA
Naphthalene	590	1,900	11	ug/L	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Styrene	100	100	80	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA
1,1,1,2-Tetrachloroethane	28	140	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	3.6	18	78	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA
Tetrachloroethene	5	5	60	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA
Toluene	470	790	270	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA
1,2,3-Trichlorobenzene	16	51	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	70	99	ug/L	5 U	NA	NA	1.0 U	NA	NA	NA
1,1,1-Trichloroethane	200	200	89	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA
1,1,2-Trichloroethane	5	5	330	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA
Trichloroethene	5	5	200	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA
1,2,3-Trichloropropane	1	1	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	160,000	170,000	32	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA
1,2,4-Trimethylbenzene	60	63	17	ug/L	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	60	72	45	ug/L	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	2	2	13	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA
o-Xylene	--	--	--	ug/L	1 U	NA	NA	NA	NA	NA	NA
Total Xylenes	280	280	41	ug/L	NA	NA	NA	2.0 U	NA	NA	NA
<b>Semivolatile Organics</b>											
1,1'-Biphenyl	--	--	--	ug/L	NA	NA	NA	10 U	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	--	--	--	ug/L	NA	NA	NA	10 U	NA	NA	NA
2,4,5-Trichlorophenol	180	570	--	ug/L	NA	NA	NA	50 U	NA	NA	NA
2,4,6-Trichlorophenol	40	170	5	ug/L	NA	NA	NA	40 U	NA	NA	NA
2,4-Dichlorophenol	80	330	11	ug/L	NA	NA	NA	100 U	NA	NA	NA
2,4-Dimethylphenol	120	380	380	ug/L	NA	NA	NA	50 U	NA	NA	NA
2,4-Dinitrophenol	12	38	19	ug/L	NA	NA	NA	200 U	NA	NA	NA
2,4-Dinitrotoluene	1.1	5.5	--	ug/L	NA	NA	NA	50 U	NA	NA	NA
2,6-Dinitrotoluene	--	--	--	ug/L	NA	NA	NA	50 U	NA	NA	NA
2-Chloronaphthalene	470	1,500	--	ug/L	NA	NA	NA	50 U	NA	NA	NA
2-Chlorophenol	32	130	18	ug/L	NA	NA	NA	50 U	NA	NA	NA
2-Methylnaphthalene	24	76	19	ug/L	NA	NA	NA	50 U	NA	NA	NA
2-Methylphenol	8,000	33,000	30	ug/L	NA	NA	NA	50 U	NA	NA	NA
2-Nitroaniline	--	--	--	ug/L	NA	NA	NA	200 U	NA	NA	NA
2-Nitrophenol	12	38	--	ug/L	NA	NA	NA	50 U	NA	NA	NA
3,3'-Dichlorobenzidine	1.6	8.2	0.3	ug/L	NA	NA	NA	50 U	NA	NA	NA

**Table 1**  
**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW-MD-01 04/26/17 TW-MD-01_GW-042617	TW-MD-01 05/24/17 TW-MD-01_GW-052417	TW-MD-02 07/29/14 TW-MD-02(072914)	TW-MD-02 09/04/14 TW-MD-02_090414	TW-MD-02 02/11/15 TW-MD-02_02112015	TW-MD-02 03/31/15 TW-MD-02_03312015	TW-MD-02 05/20/15 TW-MD-02_05202015
3-Nitroaniline	--	--	--	ug/L	NA	NA	NA	200 U	NA	NA	NA
4,6-Dinitro-2-methylphenol	20	20	--	ug/L	NA	NA	NA	200 U	NA	NA	NA
4-Bromophenyl-phenylether	--	--	--	ug/L	NA	NA	NA	50 U	NA	NA	NA
4-Chloro-3-Methylphenol	400	1,700	7.4	ug/L	NA	NA	NA	50 U	NA	NA	NA
4-Chloroaniline	3	9.4	--	ug/L	NA	NA	NA	20 U	NA	NA	NA
4-Chlorophenyl-phenylether	--	--	--	ug/L	NA	NA	NA	50 U	NA	NA	NA
4-Methylphenol	--	--	--	ug/L	NA	NA	NA	50 U	NA	NA	NA
4-Nitroaniline	--	--	--	ug/L	NA	NA	NA	200 U	NA	NA	NA
4-Nitrophenol	--	--	--	ug/L	NA	NA	NA	200 U	NA	NA	NA
Acenaphthene	360	1,100	38	ug/L	NA	NA	NA	50 U	NA	NA	NA
Acenaphthylene	360	1,100	--	ug/L	NA	NA	NA	50 U	NA	NA	NA
Acetophenone	3,200	13,000	--	ug/L	NA	NA	NA	10 U	NA	NA	NA
Anthracene	43	43	--	ug/L	NA	NA	NA	50 U	NA	NA	NA
Atrazine	3	3	7.3	ug/L	NA	NA	NA	10 U	NA	NA	NA
Benzaldehyde	--	--	--	ug/L	NA	NA	NA	10 U*	NA	NA	NA
Benzo(a)anthracene	2.3	9.4	--	ug/L	NA	NA	NA	10 U	NA	NA	NA
Benzo(a)pyrene	0.2	0.2	--	ug/L	NA	NA	NA	10 U	NA	NA	NA
Benzo(b)fluoranthene	1.5	1.5	--	ug/L	NA	NA	NA	10 U	NA	NA	NA
Benzo(g,h,i)perylene	1	1	--	ug/L	NA	NA	NA	10 U	NA	NA	NA
Benzo(k)fluoranthene	1	1	--	ug/L	NA	NA	NA	10 U	NA	NA	NA
bis(2-Chloroethoxy)methane	--	--	--	ug/L	NA	NA	NA	50 U	NA	NA	NA
bis(2-Chloroethyl)ether	1	3.3	1	ug/L	NA	NA	NA	10 U	NA	NA	NA
bis(2-Ethylhexyl)phthalate	6	6	14	ug/L	NA	NA	NA	2.9 JB	NA	NA	NA
Butylbenzylphthalate	80	330	67	ug/L	NA	NA	NA	50 U	NA	NA	NA
Caprolactam	2,000	9,400	--	ug/L	NA	NA	NA	4.8 JB	NA	NA	NA
Carbazole	10	38	10	ug/L	NA	NA	NA	100 U	NA	NA	NA
Chrysene	2	2	--	ug/L	NA	NA	NA	10 U	NA	NA	NA
Dibenzo(a,h)anthracene	2	2.5	--	ug/L	NA	NA	NA	20 U	NA	NA	NA
Dibenzofuran	5.9	19	4	ug/L	NA	NA	NA	40 U	NA	NA	NA
Diethylphthalate	4,700	15,000	110	ug/L	NA	NA	NA	50 U	NA	NA	NA
Dimethylphthalate	590	1,900	--	ug/L	NA	NA	NA	50 U	NA	NA	NA
Di-n-Butylphthalate	27	110	9.7	ug/L	NA	NA	NA	1.7 JB	NA	NA	NA
Di-n-Octylphthalate	22	22	--	ug/L	NA	NA	NA	50 U	NA	NA	NA
Fluoranthene	240	260	1.6	ug/L	NA	NA	NA	10 U	NA	NA	NA
Fluorene	240	760	12	ug/L	NA	NA	NA	50 U	NA	NA	NA
Hexachlorobenzene	1	1	0.2	ug/L	NA	NA	NA	2.0 U	NA	NA	NA
Hexachlorocyclopentadiene	50	50	--	ug/L	NA	NA	NA	50 U	NA	NA	NA
Hexachloroethane	5	13	6.7	ug/L	NA	NA	NA	50 U	NA	NA	NA
Indeno(1,2,3-cd)pyrene	2	2	--	ug/L	NA	NA	NA	20 U	NA	NA	NA
Isophorone	760	3,800	1,300	ug/L	NA	NA	NA	50 U	NA	NA	NA
Nitrobenzene	12	38	180	ug/L	NA	NA	NA	30 U	NA	NA	NA
N-Nitroso-di-n-propylamine	5	5	--	ug/L	NA	NA	NA	50 U	NA	NA	NA
N-Nitrosodiphenylamine	150	750	--	ug/L	NA	NA	NA	50 U	NA	NA	NA
Pentachlorophenol	1	1	--	ug/L	NA	NA	NA	50 U	NA	NA	NA
Phenanthrene	180	570	2	ug/L	NA	NA	NA	20 U	NA	NA	NA
Phenol	1,200	5,700	450	ug/L	NA	NA	NA	50 U	NA	NA	NA
Pyrene	140	140	--	ug/L	NA	NA	NA	50 U	NA	NA	NA
Hexachloro-1,3-Butadiene	5.9	19	0.053	ug/L	NA	NA	NA	10 U	NA	NA	NA
Naphthalene	590	1,900	11	ug/L	NA	NA	NA	50 U	NA	NA	NA
<b>Inorganics</b>											
Antimony	6	6	130	ug/L	NA	NA	0.16 J	NA	2.0 U	2.0 U	2.0 U
Arsenic	10	10	10	ug/L	NA	NA	4.9 B	NA	4.1	3.4 B	6.0 B
Barium	2,000	2,000	670	ug/L	NA	NA	160 B	NA	110 B	160	130
Beryllium	4	4	6.7	ug/L	NA	NA	0.21 J	NA	1.0 U	0.067 J	1.0 U

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Cadmium	5	5	2.5	ug/L	NA	NA	0.50 U	NA	0.17 JB	0.16 JB	0.50 U
Calcium	--	--	--	ug/L	NA	124,000	NA	NA	NA	NA	NA
Chromium	100	100	11	ug/L	NA	NA	0.46 JB	NA	1.8 JB	1.7 JB	1.5 JB
Cobalt	20	20	100	ug/L	NA	NA	0.54 J	NA	1.6	1.0 B	0.99 JB
Copper	30	95	13	ug/L	NA	NA	0.68 JB	NA	2.0 U	2.0 U	2.0 U
Cyanide (total)	--	--	--	ug/L	NA	NA	2.9 J	NA	NA	NA	NA
Iron	300	300	--	ug/L	NA	7,220	NA	NA	NA	NA	NA
Lead	1	1	14	ug/L	NA	NA	0.59 JB	NA	0.56 J	1.0 U	0.13 JB
Magnesium	330,000	1,000,000	--	ug/L	NA	36,000	NA	NA	NA	NA	NA
Manganese	50	50	1,300	ug/L	NA	971	1,400	NA	1,900	1,400	1,300
Mercury	2	2	0.0013	ug/L	NA	NA	0.20 U	NA	0.20 U	0.20 U	0.20 U
Nickel	36	110	73	ug/L	NA	NA	2.7	NA	8.4	4.5	4.3 B
Selenium	50	50	5	ug/L	NA	NA	2.0 U	NA	0.29 J	0.42 J	2.0 U
Silver	5.9	19	0.2	ug/L	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U
Thallium	2	2	3.7	ug/L	NA	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U
Vanadium	4	4	27	ug/L	NA	NA	0.19 J	NA	0.61 JB	0.78 JB	1.5 JB
Zinc	1,800	5,000	170	ug/L	NA	NA	10 U	NA	10 U	10 U	10 U
<b>Inorganics-Filtered</b>											
Antimony (dissolved)	6	6	130	ug/L	NA	NA	NA	NA	2.0 U	0.25 J	2.0 U
Arsenic (dissolved)	10	10	10	ug/L	NA	NA	NA	NA	3.4 J	3.4 JB	5.0 B
Barium (dissolved)	2,000	2,000	670	ug/L	NA	NA	NA	NA	120 B	160	140
Beryllium (dissolved)	4	4	6.7	ug/L	NA	NA	NA	NA	1.0 U	0.092 J	1.0 U
Cadmium (dissolved)	5	5	2.5	ug/L	NA	NA	NA	NA	0.18 JB	0.14 JB	1.0 U
Chromium (dissolved)	--	--	11	ug/L	NA	NA	NA	NA	1.7 JB	1.5 JB	1.5 JB
Cobalt (dissolved)	20	20	100	ug/L	NA	NA	NA	NA	1.2	0.92 JB	0.86 JB
Copper (dissolved)	30	95	13	ug/L	NA	NA	NA	NA	2.0 U	2.0 U	2.0 U
Iron (dissolved)	--	--	--	ug/L	NA	6,890	14,000 B	NA	17,000	16,000	15,000 B
Lead (dissolved)	1	1	14	ug/L	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U
Manganese (dissolved)	50	50	1,300	ug/L	NA	NA	1,300	NA	1,700	1,300 ^	1,300
Mercury (dissolved)	--	--	0.0013	ug/L	NA	NA	NA	NA	0.20 U	0.20 U	0.00075
Nickel (dissolved)	36	110	73	ug/L	NA	NA	NA	NA	6.0	4.2	3.5 B
Selenium (dissolved)	50	50	5	ug/L	NA	NA	NA	NA	5.0 U	0.45 J	0.31 J
Silver (dissolved)	5.9	19	0.2	ug/L	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U
Thallium (dissolved)	2	2	3.7	ug/L	NA	NA	NA	NA	2.0 U	2.0 U	2.0 U
Vanadium (dissolved)	4	4	27	ug/L	NA	NA	NA	NA	0.59 JB	0.76 JB	1.5 JB
Zinc (dissolved)	1,800	5,000	170	ug/L	NA	NA	NA	NA	20 U	20 U	20 U
<b>Miscellaneous</b>											
Alkalinity, total (as CaCO3)	--	--	--	ug/L	NA	438	560 B	NA	NA	NA	NA
Hardness	--	--	--	ug/L	NA	441	NA	NA	NA	NA	NA
pH (water)	--	--	--	none	NA	NA	7.28 H	NA	NA	NA	NA
Total Dissolved Solids	500,000	500,000	--	ug/L	NA	714	680	NA	NA	NA	NA
Total Suspended Solids	--	--	--	ug/L	NA	10	NA	NA	NA	NA	NA
<b>Field</b>											
Conductivity, field	--	--	--	mS/cm	NA	NA	NA	NA	NA	NA	NA
Conductivity, field	--	--	--	umhos/cm	NA	NA	NA	NA	NA	NA	NA
Dissolved oxygen (DO), field	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Oxidation reduction potential (ORP), field	--	--	--	millivolts	NA	NA	NA	NA	NA	NA	NA
Temperature, ambient	--	--	--	deg f	NA	NA	NA	NA	NA	NA	NA
Temperature, field	--	--	--	deg c	NA	NA	NA	NA	NA	NA	NA
Turbidity (field)	--	--	--	NTU	NA	NA	NA	NA	NA	NA	NA
<b>Dioxins/Furans</b>											
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA

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1,2,3,4,6,7,8-HpCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,4,6,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,4,7,8-PeCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD	<b>30</b>	30	10	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total heptachlorodibenzofuran (HpCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total heptachlorodibenzo-p-dioxin (HpCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total hexachlorodibenzofuran (HxCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total hexachlorodibenzo-p-dioxin (HxCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total pentachlorodibenzofuran (PeCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total pentachlorodibenzo-p-dioxin (PeCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzofuran (TCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzo-p-dioxin (TCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA

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Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW-MD-02 05/24/17 TW-MD-02_GW-052417	TW-MD-02 08/17/17 TW-MD-02_GW-081717	TW-MD-03 07/29/14 TW-MD-03(072914)	TW-MD-03 09/04/14 TW-MD-03_090414	TW-MD-03 02/18/15 TW-MD-03(02182015)	TW-MD-03 03/31/15 TW-MD-03(03312015)	TW-MD-03 05/20/15 TW-MD-03_05202015
<b>PCBs</b>											
Aroclor-1016	0.5	0.5	0.2	ug/L	NA	NA	0.10 U	0.11 U	0.095 U* [0.097 U*]	0.095 U	0.095 U
Aroclor-1221	0.5	0.5	0.2	ug/L	NA	NA	0.10 U	0.11 U	0.095 U [0.097 U]	0.095 U	0.095 U
Aroclor-1232	0.5	0.5	0.2	ug/L	NA	NA	0.10 U	0.11 U	0.095 U [0.097 U]	0.095 U	0.095 U
Aroclor-1242	0.5	0.5	0.2	ug/L	NA	NA	0.10 U	0.11 U	0.095 U [0.097 U]	0.095 U	0.095 U
Aroclor-1248	0.5	0.5	0.2	ug/L	NA	NA	0.10 U	0.11 U	0.095 U [0.097 U]	0.095 U	0.095 U
Aroclor-1254	0.5	0.5	0.2	ug/L	NA	NA	0.10 U	0.11 U	0.095 U [0.097 U]	0.095 U	0.095 U
Aroclor-1260	0.5	0.5	0.2	ug/L	NA	NA	0.10 U	0.11 U	0.095 U [0.097 U]	0.095 U	0.095 U
<b>PCBs-Filtered</b>											
Aroclor-1016 (PCB-1016) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	0.096 U	0.095 U
Aroclor-1221 (PCB-1221) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	0.096 U	0.095 U
Aroclor-1232 (PCB-1232) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	0.096 U	0.095 U
Aroclor-1242 (PCB-1242) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	0.096 U	0.095 U
Aroclor-1248 (PCB-1248) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	0.096 U	0.095 U
Aroclor-1254 (PCB-1254) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	0.096 U	0.095 U
Aroclor-1260 (PCB-1260) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	0.096 U	0.095 U
<b>Volatile Organics</b>											
1,2,3-Trimethylbenzene	60	130	--	ug/L	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	24	76	19	ug/L	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	2	6.8	2	ug/L	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	13	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA
Iodomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	3,600	17,000	11,000	ug/L	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Acetone	5,300	17,000	1,700	ug/L	NA	NA	NA	25 U	NA	NA	NA
Benzene	5	5	200	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
Bromobenzene	47	150	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	80	80	--	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
Bromoform	80	80	--	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
Bromomethane	120	380	5	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
2-Butanone	2,400	11,000	2,200	ug/L	NA	NA	NA	25 U	NA	NA	NA
n-Butylbenzene	270	870	--	ug/L	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	440	1,800	--	ug/L	NA	NA	NA	5.0 U	NA	NA	NA
Carbon Tetrachloride	5	5	38	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
CFC-11	1,800	5,700	--	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
CFC-12	30	94	--	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
Chlorobenzene	100	100	25	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
Chlorobromomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Chlorodibromomethane	80	80	--	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
Chloroethane	240	760	1,100	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
Chloroform	80	80	350	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
Chloromethane	220	1,100	--	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
Cyclohexane	--	--	--	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
Cymene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.2	0.2	--	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
1,2-Dibromoethane	0.05	0.05	5.7	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
Dibromomethane	18	57	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	600	13	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
1,3-Dichlorobenzene	12	38	28	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
1,4-Dichlorobenzene	75	75	17	ug/L	NA	NA	NA	1.0 U	NA	NA	NA

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**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW-MD-02 05/24/17 TW-MD-02_GW-052417	TW-MD-02 08/17/17 TW-MD-02_GW-081717	TW-MD-03 07/29/14 TW-MD-03(072914)	TW-MD-03 09/04/14 TW-MD-03_090414	TW-MD-03 02/18/15 TW-MD-03(02182015)	TW-MD-03 03/31/15 TW-MD-03_03312015	TW-MD-03 05/20/15 TW-MD-03_05202015
1,1-Dichloroethane	1,200	3,800	740	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
1,2-Dichloroethane	5	5	360	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
1,1-Dichloroethene	7	7	130	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
cis-1,2-Dichloroethene	70	70	620	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
trans-1,2-Dichloroethene	100	100	1,500	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
Dichloromethane	5	5	1,500	ug/L	NA	NA	NA	5.0 U	NA	NA	NA
1,2-Dichloropropane	5	5	230	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
cis-1,3-Dichloropropene	--	--	--	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
trans-1,3-Dichloropropene	--	--	--	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
Diethyl Ether	5	5	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	7.2	37	2,800	ug/L	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	66	74	18	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
Isopropylbenzene	590	1,900	28	ug/L	NA	NA	NA	5.0 U	NA	NA	NA
Methyl acetate	--	--	--	ug/L	NA	NA	NA	10 U	NA	NA	NA
Methyl N-Butyl Ketone	50	94	--	ug/L	NA	NA	NA	50 U	NA	NA	NA
Methylcyclohexane	--	--	--	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
4-Methyl-2-pentanone	300	940	--	ug/L	NA	NA	NA	50 U	NA	NA	NA
Methyl tert-butyl ether	40	40	7,100	ug/L	NA	NA	NA	5.0 U	NA	NA	NA
Naphthalene	590	1,900	11	ug/L	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Styrene	100	100	80	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
1,1,1,2-Tetrachloroethane	28	140	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	3.6	18	78	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
Tetrachloroethene	5	5	60	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
Toluene	470	790	270	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
1,2,3-Trichlorobenzene	16	51	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	70	99	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
1,1,1-Trichloroethane	200	200	89	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
1,1,2-Trichloroethane	5	5	330	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
Trichloroethene	5	5	200	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
1,2,3-Trichloropropane	1	1	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	160,000	170,000	32	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
1,2,4-Trimethylbenzene	60	63	17	ug/L	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	60	72	45	ug/L	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	2	2	13	ug/L	NA	NA	NA	1.0 U	NA	NA	NA
o-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	280	280	41	ug/L	NA	NA	NA	2.0 U	NA	NA	NA
<b>Semivolatile Organics</b>											
1,1'-Biphenyl	--	--	--	ug/L	NA	NA	NA	9.6 U	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	--	--	--	ug/L	NA	NA	NA	9.6 U	NA	NA	NA
2,4,5-Trichlorophenol	180	570	--	ug/L	NA	NA	NA	48 U	NA	NA	NA
2,4,6-Trichlorophenol	40	170	5	ug/L	NA	NA	NA	38 U	NA	NA	NA
2,4-Dichlorophenol	80	330	11	ug/L	NA	NA	NA	96 U	NA	NA	NA
2,4-Dimethylphenol	120	380	380	ug/L	NA	NA	NA	48 U	NA	NA	NA
2,4-Dinitrophenol	12	38	19	ug/L	NA	NA	NA	190 U	NA	NA	NA
2,4-Dinitrotoluene	1.1	5.5	--	ug/L	NA	NA	NA	48 U	NA	NA	NA
2,6-Dinitrotoluene	--	--	--	ug/L	NA	NA	NA	48 U	NA	NA	NA
2-Chloronaphthalene	470	1,500	--	ug/L	NA	NA	NA	48 U	NA	NA	NA
2-Chlorophenol	32	130	18	ug/L	NA	NA	NA	48 U	NA	NA	NA
2-Methylnaphthalene	24	76	19	ug/L	NA	NA	NA	48 U	NA	NA	NA
2-Methylphenol	8,000	33,000	30	ug/L	NA	NA	NA	48 U	NA	NA	NA
2-Nitroaniline	--	--	--	ug/L	NA	NA	NA	190 U	NA	NA	NA
2-Nitrophenol	12	38	--	ug/L	NA	NA	NA	48 U	NA	NA	NA
3,3'-Dichlorobenzidine	1.6	8.2	0.3	ug/L	NA	NA	NA	48 U	NA	NA	NA

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3-Nitroaniline	--	--	--	ug/L	NA	NA	NA	190 U	NA	NA	NA
4,6-Dinitro-2-methylphenol	20	20	--	ug/L	NA	NA	NA	190 U	NA	NA	NA
4-Bromophenyl-phenylether	--	--	--	ug/L	NA	NA	NA	48 U	NA	NA	NA
4-Chloro-3-Methylphenol	400	1,700	7.4	ug/L	NA	NA	NA	48 U	NA	NA	NA
4-Chloroaniline	3	9.4	--	ug/L	NA	NA	NA	19 U	NA	NA	NA
4-Chlorophenyl-phenylether	--	--	--	ug/L	NA	NA	NA	48 U	NA	NA	NA
4-Methylphenol	--	--	--	ug/L	NA	NA	NA	48 U	NA	NA	NA
4-Nitroaniline	--	--	--	ug/L	NA	NA	NA	190 U	NA	NA	NA
4-Nitrophenol	--	--	--	ug/L	NA	NA	NA	190 U	NA	NA	NA
Acenaphthene	360	1,100	38	ug/L	NA	NA	NA	48 U	NA	NA	NA
Acenaphthylene	360	1,100	--	ug/L	NA	NA	NA	48 U	NA	NA	NA
Acetophenone	3,200	13,000	--	ug/L	NA	NA	NA	9.6 U	NA	NA	NA
Anthracene	43	43	--	ug/L	NA	NA	NA	48 U	NA	NA	NA
Atrazine	3	3	7.3	ug/L	NA	NA	NA	9.6 U	NA	NA	NA
Benzaldehyde	--	--	--	ug/L	NA	NA	NA	9.6 U*	NA	NA	NA
Benzo(a)anthracene	2.3	9.4	--	ug/L	NA	NA	NA	9.6 U	NA	NA	NA
Benzo(a)pyrene	0.2	0.2	--	ug/L	NA	NA	NA	9.6 U	NA	NA	NA
Benzo(b)fluoranthene	1.5	1.5	--	ug/L	NA	NA	NA	9.6 U	NA	NA	NA
Benzo(g,h,i)perylene	1	1	--	ug/L	NA	NA	NA	9.6 U	NA	NA	NA
Benzo(k)fluoranthene	1	1	--	ug/L	NA	NA	NA	9.6 U	NA	NA	NA
bis(2-Chloroethoxy)methane	--	--	--	ug/L	NA	NA	NA	48 U	NA	NA	NA
bis(2-Chloroethyl)ether	1	3.3	1	ug/L	NA	NA	NA	9.6 U	NA	NA	NA
bis(2-Ethylhexyl)phthalate	6	6	14	ug/L	NA	NA	NA	2.5 JB	NA	NA	NA
Butylbenzylphthalate	80	330	67	ug/L	NA	NA	NA	48 U	NA	NA	NA
Caprolactam	2,000	9,400	--	ug/L	NA	NA	NA	48 U	NA	NA	NA
Carbazole	10	38	10	ug/L	NA	NA	NA	96 U	NA	NA	NA
Chrysene	2	2	--	ug/L	NA	NA	NA	9.6 U	NA	NA	NA
Dibenzo(a,h)anthracene	2	2.5	--	ug/L	NA	NA	NA	19 U	NA	NA	NA
Dibenzofuran	5.9	19	4	ug/L	NA	NA	NA	38 U	NA	NA	NA
Diethylphthalate	4,700	15,000	110	ug/L	NA	NA	NA	48 U	NA	NA	NA
Dimethylphthalate	590	1,900	--	ug/L	NA	NA	NA	48 U	NA	NA	NA
Di-n-Butylphthalate	27	110	9.7	ug/L	NA	NA	NA	0.76 JB	NA	NA	NA
Di-n-Octylphthalate	22	22	--	ug/L	NA	NA	NA	48 U	NA	NA	NA
Fluoranthene	240	260	1.6	ug/L	NA	NA	NA	9.6 U	NA	NA	NA
Fluorene	240	760	12	ug/L	NA	NA	NA	48 U	NA	NA	NA
Hexachlorobenzene	1	1	0.2	ug/L	NA	NA	NA	1.9 U	NA	NA	NA
Hexachlorocyclopentadiene	50	50	--	ug/L	NA	NA	NA	48 U	NA	NA	NA
Hexachloroethane	5	13	6.7	ug/L	NA	NA	NA	48 U	NA	NA	NA
Indeno(1,2,3-cd)pyrene	2	2	--	ug/L	NA	NA	NA	19 U	NA	NA	NA
Isophorone	760	3,800	1,300	ug/L	NA	NA	NA	48 U	NA	NA	NA
Nitrobenzene	12	38	180	ug/L	NA	NA	NA	29 U	NA	NA	NA
N-Nitroso-di-n-propylamine	5	5	--	ug/L	NA	NA	NA	48 U	NA	NA	NA
N-Nitrosodiphenylamine	150	750	--	ug/L	NA	NA	NA	48 U	NA	NA	NA
Pentachlorophenol	1	1	--	ug/L	NA	NA	NA	48 U	NA	NA	NA
Phenanthrene	180	570	2	ug/L	NA	NA	NA	19 U	NA	NA	NA
Phenol	1,200	5,700	450	ug/L	NA	NA	NA	48 U	NA	NA	NA
Pyrene	140	140	--	ug/L	NA	NA	NA	48 U	NA	NA	NA
Hexachloro-1,3-Butadiene	5.9	19	0.053	ug/L	NA	NA	NA	9.6 U	NA	NA	NA
Naphthalene	590	1,900	11	ug/L	NA	NA	NA	48 U	NA	NA	NA
<b>Inorganics</b>											
Antimony	6	6	130	ug/L	NA	NA	0.25 J	NA	0.37 J [2 U]	0.16 J	2.0 U
Arsenic	10	10	10	ug/L	NA	NA	2.3 B	NA	3.3 [3.2]	3.2 B	3.8 B
Barium	2,000	2,000	670	ug/L	NA	NA	180 B	NA	280 [270]	210	190
Beryllium	4	4	6.7	ug/L	NA	NA	0.14 J	NA	1.0 U [0.43 JB]	0.069 J	0.061 JB

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Cadmium	5	5	2.5	ug/L	NA	NA	0.50 U	NA	0.21 J [0.5 U]	0.11 JB	0.50 U
Calcium	--	--	--	ug/L	106,000	NA	NA	NA	NA	NA	NA
Chromium	100	100	11	ug/L	NA	NA	0.60 JB	NA	2.0 B [1.9 JB]	1.6 JB	1.9 JB
Cobalt	20	20	100	ug/L	NA	NA	1.0	NA	0.96 JB [0.76 JB]	0.71 JB	0.77 JB
Copper	30	95	13	ug/L	NA	NA	1.0 JB	NA	0.88 J [2 U]	2.0 U	1.4 JB
Cyanide (total)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Iron	300	300	--	ug/L	14,000	14,400	NA	NA	NA	NA	NA
Lead	1	1	14	ug/L	NA	NA	0.66 JB	NA	0.49 JB* [0.24 JB*]	0.12 J	0.76 JB
Magnesium	330,000	1,000,000	--	ug/L	23,200	NA	NA	NA	NA	NA	NA
Manganese	50	50	1,300	ug/L	917	NA	1,200	NA	1,200 [1,100]	760	740
Mercury	2	2	0.0013	ug/L	NA	NA	0.20 U	NA	0.20 U [0.2 U]	0.20 U	0.20 U
Nickel	36	110	73	ug/L	NA	NA	4.2	NA	2.0 [1.9 J]	1.9 J	2.4 B
Selenium	50	50	5	ug/L	NA	NA	0.47 J	NA	0.54 J [2 U]	0.62 J	0.29 J
Silver	5.9	19	0.2	ug/L	NA	NA	NA	NA	0.030 JB [0.2 U]	0.20 U	0.20 U
Thallium	2	2	3.7	ug/L	NA	NA	1.0 U	NA	0.22 J* [1 U*]	1.0 U	1.0 U
Vanadium	4	4	27	ug/L	NA	NA	4.0 U	NA	1.1 JB [0.59 JB]	0.74 JB	1.9 JB
Zinc	1,800	5,000	170	ug/L	NA	NA	4.9 J	NA	10 U [10 U]	10 U	10 U
<b>Inorganics-Filtered</b>											
Antimony (dissolved)	6	6	130	ug/L	NA	NA	NA	NA	0.16 J [2 U]	2.0 U	2.0 U
Arsenic (dissolved)	10	10	10	ug/L	NA	NA	NA	NA	2.9 J [2.9 J]	3.0 JB	3.8 JB
Barium (dissolved)	2,000	2,000	670	ug/L	NA	NA	NA	NA	230 [230]	190	170
Beryllium (dissolved)	4	4	6.7	ug/L	NA	NA	NA	NA	1.0 U [0.35 JB]	0.058 J	1.0 U
Cadmium (dissolved)	5	5	2.5	ug/L	NA	NA	NA	NA	1.0 U [0.067 JB]	0.087 JB	1.0 U
Chromium (dissolved)	--	--	11	ug/L	NA	NA	NA	NA	1.7 JB [2 B]	1.6 JB	1.7 JB
Cobalt (dissolved)	20	20	100	ug/L	NA	NA	NA	NA	0.82 JB [0.82 JB]	0.66 JB	0.75 JB
Copper (dissolved)	30	95	13	ug/L	NA	NA	NA	NA	2.0 U [2 U]	2.0 U	2.0 U
Iron (dissolved)	--	--	--	ug/L	13,500	14,200	6,400 B	NA	20,000 B [19,000 B]	17,000	15,000 B
Lead (dissolved)	1	1	14	ug/L	NA	NA	NA	NA	0.23 JB* [0.15 JB*]	1.0 U	1.0 U
Manganese (dissolved)	50	50	1,300	ug/L	NA	NA	1,200	NA	980 [960]	740 ^	680
Mercury (dissolved)	--	--	0.0013	ug/L	NA	NA	NA	NA	0.20 U [0.2 U]	0.20 U	0.0014
Nickel (dissolved)	36	110	73	ug/L	NA	NA	NA	NA	2.0 [2.2]	1.8 J	2.1 B
Selenium (dissolved)	50	50	5	ug/L	NA	NA	NA	NA	5.0 U [5 U]	0.46 J	0.29 J
Silver (dissolved)	5.9	19	0.2	ug/L	NA	NA	NA	NA	1.0 U [1 U]	1.0 U	1.0 U
Thallium (dissolved)	2	2	3.7	ug/L	NA	NA	NA	NA	2.0 U* [2 U*]	2.0 U	2.0 U
Vanadium (dissolved)	4	4	27	ug/L	NA	NA	NA	NA	0.38 JB [0.26 JB]	0.67 JB	1.7 JB
Zinc (dissolved)	1,800	5,000	170	ug/L	NA	NA	NA	NA	20 U [20 U]	20 U	20 U
<b>Miscellaneous</b>											
Alkalinity, total (as CaCO3)	--	--	--	ug/L	484	NA	NA	NA	NA	NA	NA
Hardness	--	--	--	ug/L	357	NA	NA	NA	NA	NA	NA
pH (water)	--	--	--	none	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	500,000	500,000	--	ug/L	678	NA	NA	NA	NA	NA	NA
Total Suspended Solids	--	--	--	ug/L	27	NA	NA	NA	NA	NA	NA
<b>Field</b>											
Conductivity, field	--	--	--	mS/cm	NA	NA	NA	NA	NA	NA	NA
Conductivity, field	--	--	--	umhos/cm	NA	NA	NA	NA	NA	NA	NA
Dissolved oxygen (DO), field	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Oxidation reduction potential (ORP), field	--	--	--	millivolts	NA	NA	NA	NA	NA	NA	NA
Temperature, ambient	--	--	--	deg f	NA	NA	NA	NA	NA	NA	NA
Temperature, field	--	--	--	deg c	NA	NA	NA	NA	NA	NA	NA
Turbidity (field)	--	--	--	NTU	NA	NA	NA	NA	NA	NA	NA
<b>Dioxins/Furans</b>											
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA

**Table 1**  
**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW-MD-02 05/24/17 TW-MD-02_GW-052417	TW-MD-02 08/17/17 TW-MD-02_GW-081717	TW-MD-03 07/29/14 TW-MD-03(072914)	TW-MD-03 09/04/14 TW-MD-03_090414	TW-MD-03 02/18/15 TW-MD-03(02182015)	TW-MD-03 03/31/15 TW-MD-03_03312015	TW-MD-03 05/20/15 TW-MD-03_05202015
1,2,3,4,6,7,8-HpCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,4,6,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,4,7,8-PeCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD	30	30	10	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total heptachlorodibenzofuran (HpCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total heptachlorodibenzo-p-dioxin (HpCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total hexachlorodibenzofuran (HxCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total hexachlorodibenzo-p-dioxin (HxCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total pentachlorodibenzofuran (PeCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total pentachlorodibenzo-p-dioxin (PeCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzofuran (TCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzo-p-dioxin (TCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA

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**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW-MD-03 12/20/16 TWMD-03-GW-122016	TW-MD-03 12/20/16 TWMD-03-GW-122016DL	TW-MD-03 05/25/17 TW-MD-03_GW-052517	TW-MD-04 07/30/14 TW-MD-04(073014)	TW-MD-04 09/04/14 TW-MD-04_090414	TW-MD-04 02/18/15 TW-MD-04(02182015)	TW-MD-04 03/31/15 TW-MD-04 (03312015)
<b>PCBs</b>											
Aroclor-1016	0.5	0.5	0.2	ug/L	NA	NA	NA	0.10 U [0.097 U]	0.10 U [0.098 U]	0.095 U*	0.10 U
Aroclor-1221	0.5	0.5	0.2	ug/L	NA	NA	NA	0.10 U [0.097 U]	0.10 U [0.098 U]	0.095 U	0.10 U
Aroclor-1232	0.5	0.5	0.2	ug/L	NA	NA	NA	0.10 U [0.097 U]	0.10 U [0.098 U]	0.095 U	0.10 U
Aroclor-1242	0.5	0.5	0.2	ug/L	NA	NA	NA	0.10 U [0.097 U]	0.10 U [0.098 U]	0.095 U	0.10 U
Aroclor-1248	0.5	0.5	0.2	ug/L	NA	NA	NA	0.10 U [0.097 U]	0.10 U [0.098 U]	0.095 U	0.10 U
Aroclor-1254	0.5	0.5	0.2	ug/L	NA	NA	NA	0.10 U [0.097 U]	0.10 U [0.098 U]	0.095 U	0.10 U
Aroclor-1260	0.5	0.5	0.2	ug/L	NA	NA	NA	0.10 U [0.097 U]	0.10 U [0.098 U]	0.095 U	0.10 U
<b>PCBs-Filtered</b>											
Aroclor-1016 (PCB-1016) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	0.098 U
Aroclor-1221 (PCB-1221) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	0.098 U
Aroclor-1232 (PCB-1232) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	0.098 U
Aroclor-1242 (PCB-1242) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	0.098 U
Aroclor-1248 (PCB-1248) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	0.098 U
Aroclor-1254 (PCB-1254) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	0.098 U
Aroclor-1260 (PCB-1260) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	0.098 U
<b>Volatile Organics</b>											
1,2,3-Trimethylbenzene	60	130	--	ug/L	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	24	76	19	ug/L	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	2	6.8	2	ug/L	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	13	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA
Iodomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	--	--	--	ug/L	2 U	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	3,600	17,000	11,000	ug/L	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Acetone	5,300	17,000	1,700	ug/L	50 U	NA	NA	NA	25 U [25 U]	NA	NA
Benzene	5	5	200	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA
Bromobenzene	47	150	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	80	80	--	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA
Bromoform	80	80	--	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA
Bromomethane	120	380	5	ug/L	5 U	NA	NA	NA	1.0 U [1 U]	NA	NA
2-Butanone	2,400	11,000	2,200	ug/L	25 U	NA	NA	NA	25 U [25 U]	NA	NA
n-Butylbenzene	270	870	--	ug/L	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	440	1,800	--	ug/L	5 U	NA	NA	NA	5.0 U [5 U]	NA	NA
Carbon Tetrachloride	5	5	38	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA
CFC-11	1,800	5,700	--	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA
CFC-12	30	94	--	ug/L	5 U	NA	NA	NA	1.0 U [1 U]	NA	NA
Chlorobenzene	100	100	25	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA
Chlorobromomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Chlorodibromomethane	80	80	--	ug/L	5 U	NA	NA	NA	1.0 U [1 U]	NA	NA
Chloroethane	240	760	1,100	ug/L	5 U	NA	NA	NA	1.0 U [1 U]	NA	NA
Chloroform	80	80	350	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA
Chloromethane	220	1,100	--	ug/L	5 U	NA	NA	NA	1.0 U [1 U]	NA	NA
Cyclohexane	--	--	--	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA
Cymene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.2	0.2	--	ug/L	5 U	NA	NA	NA	1.0 U [1 U]	NA	NA
1,2-Dibromoethane	0.05	0.05	5.7	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA
Dibromomethane	18	57	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	600	13	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA
1,3-Dichlorobenzene	12	38	28	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA
1,4-Dichlorobenzene	75	75	17	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA

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**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW-MD-03 12/20/16 TWMD-03-GW-122016	TW-MD-03 12/20/16 TWMD-03-GW-122016DL	TW-MD-03 05/25/17 TW-MD-03_GW-052517	TW-MD-04 07/30/14 TW-MD-04(073014)	TW-MD-04 09/04/14 TW-MD-04_090414	TW-MD-04 02/18/15 TW-MD-04(02182015)	TW-MD-04 03/31/15 TW-MD-04 (03312015)
1,1-Dichloroethane	1,200	3,800	740	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA
1,2-Dichloroethane	5	5	360	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA
1,1-Dichloroethene	7	7	130	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA
cis-1,2-Dichloroethene	70	70	620	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA
trans-1,2-Dichloroethene	100	100	1,500	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA
Dichloromethane	5	5	1,500	ug/L	5 U	NA	NA	NA	5.0 U [5 U]	NA	NA
1,2-Dichloropropane	5	5	230	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA
cis-1,3-Dichloropropene	--	--	--	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA
trans-1,3-Dichloropropene	--	--	--	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA
Diethyl Ether	5	5	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	7.2	37	2,800	ug/L	NA	5 UB	NA	NA	NA	NA	NA
Ethylbenzene	66	74	18	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA
Isopropylbenzene	590	1,900	28	ug/L	1 U	NA	NA	NA	5.0 U [5 U]	NA	NA
Methyl acetate	--	--	--	ug/L	10 U	NA	NA	NA	10 U [10 U]	NA	NA
Methyl N-Butyl Ketone	50	94	--	ug/L	50 U	NA	NA	NA	50 U [50 U]	NA	NA
Methylcyclohexane	--	--	--	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA
4-Methyl-2-pentanone	300	940	--	ug/L	50 U	NA	NA	NA	50 U [50 U]	NA	NA
Methyl tert-butyl ether	40	40	7,100	ug/L	5 U	NA	NA	NA	5.0 U [5 U]	NA	NA
Naphthalene	590	1,900	11	ug/L	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Styrene	100	100	80	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA
1,1,1,2-Tetrachloroethane	28	140	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	3.6	18	78	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA
Tetrachloroethene	5	5	60	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA
Toluene	470	790	270	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA
1,2,3-Trichlorobenzene	16	51	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	70	99	ug/L	5 U	NA	NA	NA	1.0 U [1 U]	NA	NA
1,1,1-Trichloroethane	200	200	89	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA
1,1,2-Trichloroethane	5	5	330	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA
Trichloroethene	5	5	200	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA
1,2,3-Trichloropropane	1	1	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	160,000	170,000	32	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA
1,2,4-Trimethylbenzene	60	63	17	ug/L	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	60	72	45	ug/L	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	2	2	13	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA
o-Xylene	--	--	--	ug/L	1 U	NA	NA	NA	NA	NA	NA
Total Xylenes	280	280	41	ug/L	NA	NA	NA	NA	2.0 U [2 U]	NA	NA
<b>Semivolatile Organics</b>											
1,1'-Biphenyl	--	--	--	ug/L	NA	NA	NA	NA	9.6 U [9.6 U]	NA	NA
2,2'-Oxybis(1-Chloropropane)	--	--	--	ug/L	NA	NA	NA	NA	9.6 U [9.6 U]	NA	NA
2,4,5-Trichlorophenol	180	570	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
2,4,6-Trichlorophenol	40	170	5	ug/L	NA	NA	NA	NA	38 U [38 U]	NA	NA
2,4-Dichlorophenol	80	330	11	ug/L	NA	NA	NA	NA	96 U [96 U]	NA	NA
2,4-Dimethylphenol	120	380	380	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
2,4-Dinitrophenol	12	38	19	ug/L	NA	NA	NA	NA	190 U [190 U]	NA	NA
2,4-Dinitrotoluene	1.1	5.5	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
2,6-Dinitrotoluene	--	--	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
2-Chloronaphthalene	470	1,500	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
2-Chlorophenol	32	130	18	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
2-Methylnaphthalene	24	76	19	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
2-Methylphenol	8,000	33,000	30	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
2-Nitroaniline	--	--	--	ug/L	NA	NA	NA	NA	190 U [190 U]	NA	NA
2-Nitrophenol	12	38	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
3,3'-Dichlorobenzidine	1.6	8.2	0.3	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA

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**RACER Trust**  
**Pontiac North Campus**  
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Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSI	Units	TW-MD-03 12/20/16 TWMD-03-GW-122016	TW-MD-03 12/20/16 TWMD-03-GW-122016DL	TW-MD-03 05/25/17 TW-MD-03_GW-052517	TW-MD-04 07/30/14 TW-MD-04(073014)	TW-MD-04 09/04/14 TW-MD-04_090414	TW-MD-04 02/18/15 TW-MD-04(02182015)	TW-MD-04 03/31/15 TW-MD-04 (03312015)
3-Nitroaniline	--	--	--	ug/L	NA	NA	NA	NA	190 U [190 U]	NA	NA
4,6-Dinitro-2-methylphenol	20	20	--	ug/L	NA	NA	NA	NA	190 U [190 U]	NA	NA
4-Bromophenyl-phenylether	--	--	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
4-Chloro-3-Methylphenol	400	1,700	7.4	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
4-Chloroaniline	3	9.4	--	ug/L	NA	NA	NA	NA	19 U [19 U]	NA	NA
4-Chlorophenyl-phenylether	--	--	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
4-Methylphenol	--	--	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
4-Nitroaniline	--	--	--	ug/L	NA	NA	NA	NA	190 U [190 U]	NA	NA
4-Nitrophenol	--	--	--	ug/L	NA	NA	NA	NA	190 U [190 U]	NA	NA
Acenaphthene	360	1,100	38	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
Acenaphthylene	360	1,100	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
Acetophenone	3,200	13,000	--	ug/L	NA	NA	NA	NA	9.6 U [9.6 U]	NA	NA
Anthracene	43	43	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
Atrazine	3	3	7.3	ug/L	NA	NA	NA	NA	9.6 U [9.6 U]	NA	NA
Benzaldehyde	--	--	--	ug/L	NA	NA	NA	NA	9.6 U* [9.6 U*]	NA	NA
Benzo(a)anthracene	2.3	9.4	--	ug/L	NA	NA	NA	NA	9.6 U [9.6 U]	NA	NA
Benzo(a)pyrene	0.2	0.2	--	ug/L	NA	NA	NA	NA	9.6 U [9.6 U]	NA	NA
Benzo(b)fluoranthene	1.5	1.5	--	ug/L	NA	NA	NA	NA	9.6 U [9.6 U]	NA	NA
Benzo(g,h,i)perylene	1	1	--	ug/L	NA	NA	NA	NA	9.6 U [9.6 U]	NA	NA
Benzo(k)fluoranthene	1	1	--	ug/L	NA	NA	NA	NA	9.6 U [9.6 U]	NA	NA
bis(2-Chloroethoxy)methane	--	--	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
bis(2-Chloroethyl)ether	1	3.3	1	ug/L	NA	NA	NA	NA	9.6 U [9.6 U]	NA	NA
bis(2-Ethylhexyl)phthalate	6	6	14	ug/L	NA	NA	NA	NA	3.5 JB [2.3 JB]	NA	NA
Butylbenzylphthalate	80	330	67	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
Caprolactam	2,000	9,400	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
Carbazole	10	38	10	ug/L	NA	NA	NA	NA	96 U [96 U]	NA	NA
Chrysene	2	2	--	ug/L	NA	NA	NA	NA	9.6 U [9.6 U]	NA	NA
Dibenzo(a,h)anthracene	2	2.5	--	ug/L	NA	NA	NA	NA	19 U [19 U]	NA	NA
Dibenzofuran	5.9	19	4	ug/L	NA	NA	NA	NA	38 U [38 U]	NA	NA
Diethylphthalate	4,700	15,000	110	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
Dimethylphthalate	590	1,900	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
Di-n-Butylphthalate	27	110	9.7	ug/L	NA	NA	NA	NA	2.8 JB [2.6 JB]	NA	NA
Di-n-Octylphthalate	22	22	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
Fluoranthene	240	260	1.6	ug/L	NA	NA	NA	NA	9.6 U [9.6 U]	NA	NA
Fluorene	240	760	12	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
Hexachlorobenzene	1	1	0.2	ug/L	NA	NA	NA	NA	1.9 U [1.9 U]	NA	NA
Hexachlorocyclopentadiene	50	50	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
Hexachloroethane	5	13	6.7	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
Indeno(1,2,3-cd)pyrene	2	2	--	ug/L	NA	NA	NA	NA	19 U [19 U]	NA	NA
Isophorone	760	3,800	1,300	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
Nitrobenzene	12	38	180	ug/L	NA	NA	NA	NA	29 U [29 U]	NA	NA
N-Nitroso-di-n-propylamine	5	5	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
N-Nitrosodiphenylamine	150	750	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
Pentachlorophenol	1	1	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
Phenanthrene	180	570	2	ug/L	NA	NA	NA	NA	19 U [19 U]	NA	NA
Phenol	1,200	5,700	450	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
Pyrene	140	140	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
Hexachloro-1,3-Butadiene	5.9	19	0.053	ug/L	NA	NA	NA	NA	9.6 U [9.6 U]	NA	NA
Naphthalene	590	1,900	11	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA
<b>Inorganics</b>											
Antimony	6	6	130	ug/L	NA	NA	NA	0.27 JB [0.22 JB]	NA	2.0 U	2.0 U
Arsenic	10	10	10	ug/L	NA	NA	NA	2.7 B [2.5 B]	NA	2.2	2.3 B
Barium	2,000	2,000	670	ug/L	NA	NA	NA	160 B [160 B]	NA	180	190
Beryllium	4	4	6.7	ug/L	NA	NA	NA	0.062 J [1 U]	NA	1.0 U	0.062 J

**Table 1**  
**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW-MD-03 12/20/16 TWMD-03-GW-122016	TW-MD-03 12/20/16 TWMD-03-GW-122016DL	TW-MD-03 05/25/17 TW-MD-03_GW-052517	TW-MD-04 07/30/14 TW-MD-04(073014)	TW-MD-04 09/04/14 TW-MD-04_090414	TW-MD-04 02/18/15 TW-MD-04(02182015)	TW-MD-04 03/31/15 TW-MD-04 (03312015)
Cadmium	5	5	2.5	ug/L	NA	NA	NA	0.50 U [0.5 U]	NA	0.072 J	0.084 JB
Calcium	--	--	--	ug/L	NA	NA	79,000	NA	NA	NA	NA
Chromium	100	100	11	ug/L	NA	NA	NA	0.37 JB [0.34 JB]	NA	1.3 JB	1.5 JB
Cobalt	20	20	100	ug/L	NA	NA	NA	1.6 [1.6]	NA	1.3 B	1.1 B
Copper	30	95	13	ug/L	NA	NA	NA	0.85 JB [0.82 JB]	NA	2.0 U	2.0 U
Cyanide (total)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Iron	300	300	--	ug/L	NA	NA	9,490	NA	NA	NA	NA
Lead	1	1	14	ug/L	NA	NA	NA	0.45 JB [0.37 JB]	NA	0.29 JB*	1.0 U
Magnesium	330,000	1,000,000	--	ug/L	NA	NA	19,600	NA	NA	NA	NA
Manganese	50	50	1,300	ug/L	NA	NA	520	1,300 [1,200]	NA	600	600
Mercury	2	2	0.0013	ug/L	NA	NA	NA	0.20 U [0.2 U]	NA	0.20 U	0.20 U
Nickel	36	110	73	ug/L	NA	NA	NA	7.1 B [6.7 B]	NA	4.1	2.8
Selenium	50	50	5	ug/L	NA	NA	NA	0.53 J [0.38 J]	NA	2.0 U	0.46 J
Silver	5.9	19	0.2	ug/L	NA	NA	NA	NA	NA	0.20 U	0.20 U
Thallium	2	2	3.7	ug/L	NA	NA	NA	1.0 U [1 U]	NA	1.0 U*	1.0 U
Vanadium	4	4	27	ug/L	NA	NA	NA	4.0 U [4 U]	NA	0.53 JB	0.87 JB
Zinc	1,800	5,000	170	ug/L	NA	NA	NA	2.5 JB [2.5 JB]	NA	10 U	10 U
<b>Inorganics-Filtered</b>											
Antimony (dissolved)	6	6	130	ug/L	NA	NA	NA	NA	NA	2.0 U	2.0 U
Arsenic (dissolved)	10	10	10	ug/L	NA	NA	NA	NA	NA	2.0 J	2.3 JB
Barium (dissolved)	2,000	2,000	670	ug/L	NA	NA	NA	NA	NA	210	210
Beryllium (dissolved)	4	4	6.7	ug/L	NA	NA	NA	NA	NA	1.0 U	1.0 U
Cadmium (dissolved)	5	5	2.5	ug/L	NA	NA	NA	NA	NA	1.0 U	0.080 JB
Chromium (dissolved)	--	--	11	ug/L	NA	NA	NA	NA	NA	1.6 JB	1.6 JB
Cobalt (dissolved)	20	20	100	ug/L	NA	NA	NA	NA	NA	1.3 B	1.2 B
Copper (dissolved)	30	95	13	ug/L	NA	NA	NA	NA	NA	2.0 U	2.0 U
Iron (dissolved)	--	--	--	ug/L	NA	NA	9,160	6,300 B [6,700 B]	NA	27,000 B	24,000
Lead (dissolved)	1	1	14	ug/L	NA	NA	NA	NA	NA	0.23 JB*	1.0 U
Manganese (dissolved)	50	50	1,300	ug/L	NA	NA	NA	1,300 [1,300]	NA	670	670 ^
Mercury (dissolved)	--	--	0.0013	ug/L	NA	NA	NA	NA	NA	0.20 U	0.20 U
Nickel (dissolved)	36	110	73	ug/L	NA	NA	NA	NA	NA	3.2	2.7
Selenium (dissolved)	50	50	5	ug/L	NA	NA	NA	NA	NA	0.25 J	0.43 J
Silver (dissolved)	5.9	19	0.2	ug/L	NA	NA	NA	NA	NA	1.0 U	1.0 U
Thallium (dissolved)	2	2	3.7	ug/L	NA	NA	NA	NA	NA	2.0 U*	2.0 U
Vanadium (dissolved)	4	4	27	ug/L	NA	NA	NA	NA	NA	0.69 JB	0.84 JB
Zinc (dissolved)	1,800	5,000	170	ug/L	NA	NA	NA	NA	NA	20 U	20 U
<b>Miscellaneous</b>											
Alkalinity, total (as CaCO3)	--	--	--	ug/L	NA	NA	488	NA	NA	NA	NA
Hardness	--	--	--	ug/L	NA	NA	269	NA	NA	NA	NA
pH (water)	--	--	--	none	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	500,000	500,000	--	ug/L	NA	NA	726	NA	NA	NA	NA
Total Suspended Solids	--	--	--	ug/L	NA	NA	15	NA	NA	NA	NA
<b>Field</b>											
Conductivity, field	--	--	--	mS/cm	NA	NA	NA	NA	NA	NA	NA
Conductivity, field	--	--	--	umhos/cm	NA	NA	NA	NA	NA	NA	NA
Dissolved oxygen (DO), field	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Oxidation reduction potential (ORP), field	--	--	--	millivolts	NA	NA	NA	NA	NA	NA	NA
Temperature, ambient	--	--	--	deg f	NA	NA	NA	NA	NA	NA	NA
Temperature, field	--	--	--	deg c	NA	NA	NA	NA	NA	NA	NA
Turbidity (field)	--	--	--	NTU	NA	NA	NA	NA	NA	NA	NA
<b>Dioxins/Furans</b>											
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA

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**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW-MD-03 12/20/16 TWMD-03-GW-122016	TW-MD-03 12/20/16 TWMD-03-GW-122016DL	TW-MD-03 05/25/17 TW-MD-03_GW-052517	TW-MD-04 07/30/14 TW-MD-04(073014)	TW-MD-04 09/04/14 TW-MD-04_090414	TW-MD-04 02/18/15 TW-MD-04(02182015)	TW-MD-04 03/31/15 TW-MD-04 (03312015)
1,2,3,4,6,7,8-HpCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,4,6,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,4,7,8-PeCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD	<b>30</b>	<b>30</b>	<b>10</b>	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total heptachlorodibenzofuran (HpCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total heptachlorodibenzo-p-dioxin (HpCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total hexachlorodibenzofuran (HxCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total hexachlorodibenzo-p-dioxin (HxCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total pentachlorodibenzofuran (PeCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total pentachlorodibenzo-p-dioxin (PeCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzofuran (TCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzo-p-dioxin (TCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA

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Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW-MD-04 05/20/15 TW-MD-04_05202015	TW-MD-04 04/24/17 TW-MD-04_GW-042417	TW-MD-04 05/24/17 TW-MD-04_GW-052417	TW-MD-05 07/30/14 TW-MD-05(073014)	TW-MD-05 09/05/14 TW-MD-05_090514	TW-MD-05 02/18/15 TW-MD-05(02182015)	TW-MD-05 04/01/15 TW-MD-05_04012015
<b>PCBs</b>											
Aroclor-1016	0.5	0.5	0.2	ug/L	0.099 U	0.1 U	NA	0.099 U	0.10 U	0.097 U*	0.10 U
Aroclor-1221	0.5	0.5	0.2	ug/L	0.099 U	0.1 U	NA	0.099 U	0.10 U	0.097 U	0.10 U
Aroclor-1232	0.5	0.5	0.2	ug/L	0.099 U	0.1 U	NA	0.099 U	0.10 U	0.097 U	0.10 U
Aroclor-1242	0.5	0.5	0.2	ug/L	0.099 U	0.1 U	NA	0.099 U	0.10 U	0.097 U	0.10 U
Aroclor-1248	0.5	0.5	0.2	ug/L	0.099 U	0.1 U	NA	0.099 U	0.10 U	0.097 U	0.10 U
Aroclor-1254	0.5	0.5	0.2	ug/L	0.099 U	0.1 U	NA	0.099 U	0.10 U	0.097 U	0.10 U
Aroclor-1260	0.5	0.5	0.2	ug/L	0.099 U	0.1 U	NA	0.099 U	0.10 U	0.097 U	0.10 U
<b>PCBs-Filtered</b>											
Aroclor-1016 (PCB-1016) (dissolved)	0.5	0.5	0.2	ug/L	0.096 U	NA	NA	NA	NA	NA	0.10 U
Aroclor-1221 (PCB-1221) (dissolved)	0.5	0.5	0.2	ug/L	0.096 U	NA	NA	NA	NA	NA	0.10 U
Aroclor-1232 (PCB-1232) (dissolved)	0.5	0.5	0.2	ug/L	0.096 U	NA	NA	NA	NA	NA	0.10 U
Aroclor-1242 (PCB-1242) (dissolved)	0.5	0.5	0.2	ug/L	0.096 U	NA	NA	NA	NA	NA	0.10 U
Aroclor-1248 (PCB-1248) (dissolved)	0.5	0.5	0.2	ug/L	0.096 U	NA	NA	NA	NA	NA	0.10 U
Aroclor-1254 (PCB-1254) (dissolved)	0.5	0.5	0.2	ug/L	0.096 U	NA	NA	NA	NA	NA	0.10 U
Aroclor-1260 (PCB-1260) (dissolved)	0.5	0.5	0.2	ug/L	0.096 U	NA	NA	NA	NA	NA	0.10 U
<b>Volatile Organics</b>											
1,2,3-Trimethylbenzene	60	130	--	ug/L	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	24	76	19	ug/L	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	2	6.8	2	ug/L	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	13	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA
Iodomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	3,600	17,000	11,000	ug/L	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Acetone	5,300	17,000	1,700	ug/L	NA	NA	NA	NA	4.2 J	NA	NA
Benzene	5	5	200	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
Bromobenzene	47	150	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	80	80	--	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
Bromoform	80	80	--	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
Bromomethane	120	380	5	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
2-Butanone	2,400	11,000	2,200	ug/L	NA	NA	NA	NA	25 U	NA	NA
n-Butylbenzene	270	870	--	ug/L	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	440	1,800	--	ug/L	NA	NA	NA	NA	5.0 U	NA	NA
Carbon Tetrachloride	5	5	38	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
CFC-11	1,800	5,700	--	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
CFC-12	30	94	--	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
Chlorobenzene	100	100	25	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
Chlorobromomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Chlorodibromomethane	80	80	--	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
Chloroethane	240	760	1,100	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
Chloroform	80	80	350	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
Chloromethane	220	1,100	--	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
Cyclohexane	--	--	--	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
Cymene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.2	0.2	--	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
1,2-Dibromoethane	0.05	0.05	5.7	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
Dibromomethane	18	57	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	600	13	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
1,3-Dichlorobenzene	12	38	28	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
1,4-Dichlorobenzene	75	75	17	ug/L	NA	NA	NA	NA	1.0 U	NA	NA

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Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW-MD-04 05/20/15 <small>TW-MD-04_05202015</small>	TW-MD-04 04/24/17 <small>TW-MD-04_GW-042417</small>	TW-MD-04 05/24/17 <small>TW-MD-04_GW-052417</small>	TW-MD-05 07/30/14 <small>TW-MD-05(073014)</small>	TW-MD-05 09/05/14 <small>TW-MD-05_090514</small>	TW-MD-05 02/18/15 <small>TW-MD-05(02182015)</small>	TW-MD-05 04/01/15 <small>TW-MD-05 (04012015)</small>
1,1-Dichloroethane	1,200	3,800	740	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
1,2-Dichloroethane	5	5	360	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
1,1-Dichloroethene	7	7	130	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
cis-1,2-Dichloroethene	70	70	620	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
trans-1,2-Dichloroethene	100	100	1,500	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
Dichloromethane	5	5	1,500	ug/L	NA	NA	NA	NA	5.0 U	NA	NA
1,2-Dichloropropane	5	5	230	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
cis-1,3-Dichloropropene	--	--	--	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
trans-1,3-Dichloropropene	--	--	--	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
Diethyl Ether	5	5	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	7.2	37	2,800	ug/L	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	66	74	18	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
Isopropylbenzene	590	1,900	28	ug/L	NA	NA	NA	NA	5.0 U	NA	NA
Methyl acetate	--	--	--	ug/L	NA	NA	NA	NA	10 U	NA	NA
Methyl N-Butyl Ketone	50	94	--	ug/L	NA	NA	NA	NA	50 U	NA	NA
Methylcyclohexane	--	--	--	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
4-Methyl-2-pentanone	300	940	--	ug/L	NA	NA	NA	NA	50 U	NA	NA
Methyl tert-butyl ether	40	40	7,100	ug/L	NA	NA	NA	NA	5.0 U	NA	NA
Naphthalene	590	1,900	11	ug/L	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Styrene	100	100	80	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
1,1,1,2-Tetrachloroethane	28	140	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	3.6	18	78	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
Tetrachloroethene	5	5	60	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
Toluene	470	790	270	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
1,2,3-Trichlorobenzene	16	51	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	70	99	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
1,1,1-Trichloroethane	200	200	89	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
1,1,2-Trichloroethane	5	5	330	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
Trichloroethene	5	5	200	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
1,2,3-Trichloropropane	1	1	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	160,000	170,000	32	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
1,2,4-Trimethylbenzene	60	63	17	ug/L	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	60	72	45	ug/L	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	2	2	13	ug/L	NA	NA	NA	NA	1.0 U	NA	NA
o-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	280	280	41	ug/L	NA	NA	NA	NA	2.0 U	NA	NA
<b>Semivolatile Organics</b>											
1,1'-Biphenyl	--	--	--	ug/L	NA	NA	NA	NA	9.6 U	NA	NA
2,2'-Oxybis(1-Chloropropane)	--	--	--	ug/L	NA	NA	NA	NA	9.6 U	NA	NA
2,4,5-Trichlorophenol	180	570	--	ug/L	NA	NA	NA	NA	48 U	NA	NA
2,4,6-Trichlorophenol	40	170	5	ug/L	NA	NA	NA	NA	38 U	NA	NA
2,4-Dichlorophenol	80	330	11	ug/L	NA	NA	NA	NA	96 U	NA	NA
2,4-Dimethylphenol	120	380	380	ug/L	NA	NA	NA	NA	48 U	NA	NA
2,4-Dinitrophenol	12	38	19	ug/L	NA	NA	NA	NA	190 U	NA	NA
2,4-Dinitrotoluene	1.1	5.5	--	ug/L	NA	NA	NA	NA	48 U	NA	NA
2,6-Dinitrotoluene	--	--	--	ug/L	NA	NA	NA	NA	48 U	NA	NA
2-Chloronaphthalene	470	1,500	--	ug/L	NA	NA	NA	NA	48 U	NA	NA
2-Chlorophenol	32	130	18	ug/L	NA	NA	NA	NA	48 U	NA	NA
2-Methylnaphthalene	24	76	19	ug/L	NA	NA	NA	NA	48 U	NA	NA
2-Methylphenol	8,000	33,000	30	ug/L	NA	NA	NA	NA	48 U	NA	NA
2-Nitroaniline	--	--	--	ug/L	NA	NA	NA	NA	190 U	NA	NA
2-Nitrophenol	12	38	--	ug/L	NA	NA	NA	NA	48 U	NA	NA
3,3'-Dichlorobenzidine	1.6	8.2	0.3	ug/L	NA	NA	NA	NA	48 U	NA	NA

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**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW-MD-04 05/20/15 TW-MD-04_05202015	TW-MD-04 04/24/17 TW-MD-04_GW-042417	TW-MD-04 05/24/17 TW-MD-04_GW-052417	TW-MD-05 07/30/14 TW-MD-05(073014)	TW-MD-05 09/05/14 TW-MD-05_090514	TW-MD-05 02/18/15 TW-MD-05(02182015)	TW-MD-05 04/01/15 TW-MD-05_04012015
3-Nitroaniline	--	--	--	ug/L	NA	NA	NA	NA	190 U	NA	NA
4,6-Dinitro-2-methylphenol	20	20	--	ug/L	NA	NA	NA	NA	190 U	NA	NA
4-Bromophenyl-phenylether	--	--	--	ug/L	NA	NA	NA	NA	48 U	NA	NA
4-Chloro-3-Methylphenol	400	1,700	7.4	ug/L	NA	NA	NA	NA	48 U	NA	NA
4-Chloroaniline	3	9.4	--	ug/L	NA	NA	NA	NA	19 U	NA	NA
4-Chlorophenyl-phenylether	--	--	--	ug/L	NA	NA	NA	NA	48 U	NA	NA
4-Methylphenol	--	--	--	ug/L	NA	NA	NA	NA	48 U	NA	NA
4-Nitroaniline	--	--	--	ug/L	NA	NA	NA	NA	190 U	NA	NA
4-Nitrophenol	--	--	--	ug/L	NA	NA	NA	NA	190 U	NA	NA
Acenaphthene	360	1,100	38	ug/L	NA	NA	NA	NA	48 U	NA	NA
Acenaphthylene	360	1,100	--	ug/L	NA	NA	NA	NA	48 U	NA	NA
Acetophenone	3,200	13,000	--	ug/L	NA	NA	NA	NA	9.6 U	NA	NA
Anthracene	43	43	--	ug/L	NA	NA	NA	NA	48 U	NA	NA
Atrazine	3	3	7.3	ug/L	NA	NA	NA	NA	9.6 U	NA	NA
Benzaldehyde	--	--	--	ug/L	NA	NA	NA	NA	9.6 U*	NA	NA
Benzo(a)anthracene	2.3	9.4	--	ug/L	NA	NA	NA	NA	9.6 U	NA	NA
Benzo(a)pyrene	0.2	0.2	--	ug/L	NA	NA	NA	NA	9.6 U	NA	NA
Benzo(b)fluoranthene	1.5	1.5	--	ug/L	NA	NA	NA	NA	9.6 U	NA	NA
Benzo(g,h,i)perylene	1	1	--	ug/L	NA	NA	NA	NA	9.6 U	NA	NA
Benzo(k)fluoranthene	1	1	--	ug/L	NA	NA	NA	NA	9.6 U	NA	NA
bis(2-Chloroethoxy)methane	--	--	--	ug/L	NA	NA	NA	NA	48 U	NA	NA
bis(2-Chloroethyl)ether	1	3.3	1	ug/L	NA	NA	NA	NA	9.6 U	NA	NA
bis(2-Ethylhexyl)phthalate	6	6	14	ug/L	NA	NA	NA	NA	2.4 JB	NA	NA
Butylbenzylphthalate	80	330	67	ug/L	NA	NA	NA	NA	48 U	NA	NA
Caprolactam	2,000	9,400	--	ug/L	NA	NA	NA	NA	48 U	NA	NA
Carbazole	10	38	10	ug/L	NA	NA	NA	NA	96 U	NA	NA
Chrysene	2	2	--	ug/L	NA	NA	NA	NA	9.6 U	NA	NA
Dibenzo(a,h)anthracene	2	2.5	--	ug/L	NA	NA	NA	NA	19 U	NA	NA
Dibenzofuran	5.9	19	4	ug/L	NA	NA	NA	NA	38 U	NA	NA
Diethylphthalate	4,700	15,000	110	ug/L	NA	NA	NA	NA	48 U	NA	NA
Dimethylphthalate	590	1,900	--	ug/L	NA	NA	NA	NA	48 U	NA	NA
Di-n-Butylphthalate	27	110	9.7	ug/L	NA	NA	NA	NA	1.4 JB	NA	NA
Di-n-Octylphthalate	22	22	--	ug/L	NA	NA	NA	NA	48 U	NA	NA
Fluoranthene	240	260	1.6	ug/L	NA	NA	NA	NA	9.6 U	NA	NA
Fluorene	240	760	12	ug/L	NA	NA	NA	NA	48 U	NA	NA
Hexachlorobenzene	1	1	0.2	ug/L	NA	NA	NA	NA	1.9 U	NA	NA
Hexachlorocyclopentadiene	50	50	--	ug/L	NA	NA	NA	NA	48 U	NA	NA
Hexachloroethane	5	13	6.7	ug/L	NA	NA	NA	NA	48 U	NA	NA
Indeno(1,2,3-cd)pyrene	2	2	--	ug/L	NA	NA	NA	NA	19 U	NA	NA
Isophorone	760	3,800	1,300	ug/L	NA	NA	NA	NA	48 U	NA	NA
Nitrobenzene	12	38	180	ug/L	NA	NA	NA	NA	29 U	NA	NA
N-Nitroso-di-n-propylamine	5	5	--	ug/L	NA	NA	NA	NA	48 U	NA	NA
N-Nitrosodiphenylamine	150	750	--	ug/L	NA	NA	NA	NA	48 U	NA	NA
Pentachlorophenol	1	1	--	ug/L	NA	NA	NA	NA	48 U	NA	NA
Phenanthrene	180	570	2	ug/L	NA	NA	NA	NA	19 U	NA	NA
Phenol	1,200	5,700	450	ug/L	NA	NA	NA	NA	48 U	NA	NA
Pyrene	140	140	--	ug/L	NA	NA	NA	NA	48 U	NA	NA
Hexachloro-1,3-Butadiene	5.9	19	0.053	ug/L	NA	NA	NA	NA	9.6 U	NA	NA
Naphthalene	590	1,900	11	ug/L	NA	NA	NA	NA	48 U	NA	NA
<b>Inorganics</b>											
Antimony	6	6	130	ug/L	2.0 U	NA	NA	0.40 JB	NA	2.0 U	0.50 J
Arsenic	10	10	10	ug/L	2.9 B	NA	NA	3.2 B	NA	1.9 J	2.4 B
Barium	2,000	2,000	670	ug/L	200	NA	NA	98 B	NA	81	87
Beryllium	4	4	6.7	ug/L	0.092 J	1.0 U	NA	0.054 J	NA	1 U	0.33 J

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Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW-MD-04 05/20/15 <small>TW-MD-04_05202015</small>	TW-MD-04 04/24/17 <small>TW-MD-04_GW-042417</small>	TW-MD-04 05/24/17 <small>TW-MD-04_GW-052417</small>	TW-MD-05 07/30/14 <small>TW-MD-05(073014)</small>	TW-MD-05 09/05/14 <small>TW-MD-05_090514</small>	TW-MD-05 02/18/15 <small>TW-MD-05(02182015)</small>	TW-MD-05 04/01/15 <small>TW-MD-05 (04012015)</small>
Cadmium	5	5	2.5	ug/L	0.46 JB	0.5 U	NA	0.50 U	NA	0.50 U	0.35 JB
Calcium	--	--	--	ug/L	NA	NA	48,800	NA	NA	NA	NA
Chromium	100	100	11	ug/L	2.3 B	5 U	NA	0.52 JB	NA	1.8 JB	1.6 JB
Cobalt	20	20	100	ug/L	1.3 B	5 U	NA	0.84 J	NA	0.71 JB	0.76 J
Copper	30	95	13	ug/L	2.0 U	5 U	NA	0.62 JB	NA	2.0 U	2.0 U
Cyanide (total)	--	--	--	ug/L	NA	NA	NA	2.6 J	NA	NA	NA
Iron	300	300	--	ug/L	NA	10,700	11,300	NA	NA	NA	NA
Lead	1	1	14	ug/L	0.29 JB	3 U	NA	0.70 JB	NA	0.41 JB*	0.29 JB
Magnesium	330,000	1,000,000	--	ug/L	NA	NA	14,800	NA	NA	NA	NA
Manganese	50	50	1,300	ug/L	560	353	341	650	NA	360	380
Mercury	2	2	0.0013	ug/L	0.20 U	0.20 U	NA	0.20 U	NA	0.24	0.20 U
Nickel	36	110	73	ug/L	3.1	5 U	NA	3.1 B	NA	1.9 J	1.7 J
Selenium	50	50	5	ug/L	0.64 JB	5 U	NA	0.57 J	NA	2.0 U	0.73 J
Silver	5.9	19	0.2	ug/L	0.20 U	5 U	NA	NA	NA	0.20 U	0.20 U
Thallium	2	2	3.7	ug/L	0.077 JB	2 U	NA	1.0 U	NA	1.0 U*	0.21 J
Vanadium	4	4	27	ug/L	1.0 JB	5 U	NA	4.0 U	NA	0.70 JB	0.63 JB
Zinc	1,800	5,000	170	ug/L	10 U	5 U	NA	10 U	NA	10 U	10 U
<b>Inorganics-Filtered</b>											
Antimony (dissolved)	6	6	130	ug/L	2.0 U	NA	NA	NA	NA	2.0 U	0.24 J
Arsenic (dissolved)	10	10	10	ug/L	2.7 JB	NA	NA	NA	NA	1.8 J	2.1 JB
Barium (dissolved)	2,000	2,000	670	ug/L	200	NA	NA	NA	NA	86	88
Beryllium (dissolved)	4	4	6.7	ug/L	0.070 J	1 U	NA	NA	NA	0.38 JB	0.20 J
Cadmium (dissolved)	5	5	2.5	ug/L	0.47 JB	0.5 U	NA	NA	NA	1.0 U	0.19 JB
Chromium (dissolved)	--	--	11	ug/L	2.3 B	5 U	NA	NA	NA	1.5 JB	1.7 JB
Cobalt (dissolved)	20	20	100	ug/L	1.3 B	5 U	NA	NA	NA	0.68 JB	0.66 J
Copper (dissolved)	30	95	13	ug/L	2.0 U	5 U	NA	NA	NA	2.0 U	2.0 U
Iron (dissolved)	--	--	--	ug/L	24,000 B	10,200	11,200	8,600 B	NA	15,000 B	16,000
Lead (dissolved)	1	1	14	ug/L	0.17 JB	3 U	NA	NA	NA	0.17 JB*	1.0 U
Manganese (dissolved)	50	50	1,300	ug/L	580	369	NA	720	NA	390	400
Mercury (dissolved)	--	--	0.0013	ug/L	0.00079	0.005 U	NA	NA	NA	0.20 U	0.20 U
Nickel (dissolved)	36	110	73	ug/L	3.0	5 U	NA	NA	NA	1.7 J	1.6 J
Selenium (dissolved)	50	50	5	ug/L	0.62 JB	5 U	NA	NA	NA	5.0 U	0.51 J
Silver (dissolved)	5.9	19	0.2	ug/L	0.020 JB	0.5 U	NA	NA	NA	1.0 U	1.0 U
Thallium (dissolved)	2	2	3.7	ug/L	0.081 JB	2 U	NA	NA	NA	2.0 U*	2.0 U
Vanadium (dissolved)	4	4	27	ug/L	1.1 JB	5 U	NA	NA	NA	0.65 JB	0.66 JB
Zinc (dissolved)	1,800	5,000	170	ug/L	20 U	5 U	NA	NA	NA	20 U	20 U
<b>Miscellaneous</b>											
Alkalinity, total (as CaCO3)	--	--	--	ug/L	NA	NA	458	5.0 U	NA	NA	NA
Hardness	--	--	--	ug/L	NA	NA	179	NA	NA	NA	NA
pH (water)	--	--	--	none	NA	NA	NA	7.22 H	NA	NA	NA
Total Dissolved Solids	500,000	500,000	--	ug/L	NA	NA	728	620	NA	NA	NA
Total Suspended Solids	--	--	--	ug/L	NA	NA	20	NA	NA	NA	NA
<b>Field</b>											
Conductivity, field	--	--	--	mS/cm	NA	NA	NA	NA	NA	NA	NA
Conductivity, field	--	--	--	umhos/cm	NA	NA	NA	NA	NA	NA	NA
Dissolved oxygen (DO), field	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Oxidation reduction potential (ORP), field	--	--	--	millivolts	NA	NA	NA	NA	NA	NA	NA
Temperature, ambient	--	--	--	deg f	NA	NA	NA	NA	NA	NA	NA
Temperature, field	--	--	--	deg c	NA	NA	NA	NA	NA	NA	NA
Turbidity (field)	--	--	--	NTU	NA	NA	NA	NA	NA	NA	NA
<b>Dioxins/Furans</b>											
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA

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1,2,3,4,6,7,8-HpCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,4,6,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,4,7,8-PeCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD	<b>30</b>	<b>30</b>	<b>10</b>	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total heptachlorodibenzofuran (HpCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total heptachlorodibenzo-p-dioxin (HpCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total hexachlorodibenzofuran (HxCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total hexachlorodibenzo-p-dioxin (HxCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total pentachlorodibenzofuran (PeCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total pentachlorodibenzo-p-dioxin (PeCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzofuran (TCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzo-p-dioxin (TCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA

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<b>PCBs</b>											
Aroclor-1016	0.5	0.5	0.2	ug/L	0.098 U	NA	NA	0.1 U [0.1 U]	NA	0.098 U	0.097 U
Aroclor-1221	0.5	0.5	0.2	ug/L	0.098 U	NA	NA	0.1 U [0.1 U]	NA	0.098 U	0.097 U
Aroclor-1232	0.5	0.5	0.2	ug/L	0.098 U	NA	NA	0.1 U [0.1 U]	NA	0.098 U	0.097 U
Aroclor-1242	0.5	0.5	0.2	ug/L	0.098 U	NA	NA	0.1 U [0.1]	NA	0.23	0.097 U
Aroclor-1248	0.5	0.5	0.2	ug/L	0.098 U	NA	NA	0.1 U [0.1 U]	NA	0.098 U	0.17
Aroclor-1254	0.5	0.5	0.2	ug/L	0.098 U	NA	NA	0.1 U [0.1 U]	NA	0.098 U	0.097 U
Aroclor-1260	0.5	0.5	0.2	ug/L	0.098 U	NA	NA	0.1 U [0.1 U]	NA	0.098 U	0.097 U
<b>PCBs-Filtered</b>											
Aroclor-1016 (PCB-1016) (dissolved)	0.5	0.5	0.2	ug/L	0.095 U	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221) (dissolved)	0.5	0.5	0.2	ug/L	0.095 U	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232) (dissolved)	0.5	0.5	0.2	ug/L	0.095 U	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242) (dissolved)	0.5	0.5	0.2	ug/L	0.095 U	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248) (dissolved)	0.5	0.5	0.2	ug/L	0.095 U	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254) (dissolved)	0.5	0.5	0.2	ug/L	0.095 U	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260) (dissolved)	0.5	0.5	0.2	ug/L	0.095 U	NA	NA	NA	NA	NA	NA
<b>Volatile Organics</b>											
1,2,3-Trimethylbenzene	60	130	--	ug/L	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	24	76	19	ug/L	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	2	6.8	2	ug/L	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	13	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA
Iodomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	--	--	--	ug/L	NA	2 U	NA	NA	NA	NA	NA
Tetrahydrofuran	3,600	17,000	11,000	ug/L	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Acetone	5,300	17,000	1,700	ug/L	NA	50 U	NA	NA	NA	NA	25 U
Benzene	5	5	200	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U
Bromobenzene	47	150	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	80	80	--	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U
Bromoform	80	80	--	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U
Bromomethane	120	380	5	ug/L	NA	5 U	NA	NA	NA	NA	1.0 U
2-Butanone	2,400	11,000	2,200	ug/L	NA	25 U	NA	NA	NA	NA	25 U
n-Butylbenzene	270	870	--	ug/L	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	440	1,800	--	ug/L	NA	5 U	NA	NA	NA	NA	5.0 U
Carbon Tetrachloride	5	5	38	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U
CFC-11	1,800	5,700	--	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U
CFC-12	30	94	--	ug/L	NA	5 U	NA	NA	NA	NA	1.0 U
Chlorobenzene	100	100	25	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U
Chlorobromomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Chlorodibromomethane	80	80	--	ug/L	NA	5 U	NA	NA	NA	NA	1.0 U
Chloroethane	240	760	1,100	ug/L	NA	5 U	NA	NA	NA	NA	1.0 U
Chloroform	80	80	350	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U
Chloromethane	220	1,100	--	ug/L	NA	5 U	NA	NA	NA	NA	1.0 U
Cyclohexane	--	--	--	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U
Cymene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.2	0.2	--	ug/L	NA	5 U	NA	NA	NA	NA	1.0 U
1,2-Dibromoethane	0.05	0.05	5.7	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U
Dibromomethane	18	57	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	600	13	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U
1,3-Dichlorobenzene	12	38	28	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U
1,4-Dichlorobenzene	75	75	17	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U

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**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW-MD-05 05/20/15 TW-MD-05_05202015	TW-MD-05 12/20/16 TWMD-05-GW-122016	TW-MD-05 12/20/16 TWMD-05-GW-122016DL	TW-MD-05 04/24/17 TW-MD-05_GW-042417	TW-MD-05 05/25/17 TW-MD-05_GW-052517	TW-MD-06 08/01/14 TW-MD-06(080114)	TW-MD-06 09/09/14 TW-MD-06_090914
1,1-Dichloroethane	1,200	3,800	740	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U
1,2-Dichloroethane	5	5	360	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U
1,1-Dichloroethene	7	7	130	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U
cis-1,2-Dichloroethene	70	70	620	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U
trans-1,2-Dichloroethene	100	100	1,500	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U
Dichloromethane	5	5	1,500	ug/L	NA	5 U	NA	NA	NA	NA	5.0 U
1,2-Dichloropropane	5	5	230	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U
cis-1,3-Dichloropropene	--	--	--	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U
trans-1,3-Dichloropropene	--	--	--	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U
Diethyl Ether	5	5	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	7.2	37	2,800	ug/L	NA	NA	4 UB	NA	NA	NA	NA
Ethylbenzene	66	74	18	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U
Isopropylbenzene	590	1,900	28	ug/L	NA	1 U	NA	NA	NA	NA	5.0 U
Methyl acetate	--	--	--	ug/L	NA	10 U	NA	NA	NA	NA	10 U
Methyl N-Butyl Ketone	50	94	--	ug/L	NA	50 U	NA	NA	NA	NA	50 U
Methylcyclohexane	--	--	--	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U
4-Methyl-2-pentanone	300	940	--	ug/L	NA	50 U	NA	NA	NA	NA	50 U
Methyl tert-butyl ether	40	40	7,100	ug/L	NA	5 U	NA	NA	NA	NA	5.0 U
Naphthalene	590	1,900	11	ug/L	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Styrene	100	100	80	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U
1,1,1,2-Tetrachloroethane	28	140	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	3.6	18	78	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U
Tetrachloroethene	5	5	60	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U
Toluene	470	790	270	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U
1,2,3-Trichlorobenzene	16	51	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	70	99	ug/L	NA	5 U	NA	NA	NA	NA	1.0 U
1,1,1-Trichloroethane	200	200	89	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U
1,1,2-Trichloroethane	5	5	330	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U
Trichloroethene	5	5	200	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U
1,2,3-Trichloropropane	1	1	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	160,000	170,000	32	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U
1,2,4-Trimethylbenzene	60	63	17	ug/L	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	60	72	45	ug/L	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	2	2	13	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U
o-Xylene	--	--	--	ug/L	NA	1 U	NA	NA	NA	NA	NA
Total Xylenes	280	280	41	ug/L	NA	NA	NA	NA	NA	NA	2.0 U
<b>Semivolatile Organics</b>											
1,1'-Biphenyl	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	9.6 U*
2,2'-Oxybis(1-Chloropropane)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	9.6 U
2,4,5-Trichlorophenol	180	570	--	ug/L	NA	NA	NA	NA	NA	NA	48 U*
2,4,6-Trichlorophenol	40	170	5	ug/L	NA	NA	NA	NA	NA	NA	38 U*
2,4-Dichlorophenol	80	330	11	ug/L	NA	NA	NA	NA	NA	NA	96 U
2,4-Dimethylphenol	120	380	380	ug/L	NA	NA	NA	NA	NA	NA	48 U
2,4-Dinitrophenol	12	38	19	ug/L	NA	NA	NA	NA	NA	NA	190 U*
2,4-Dinitrotoluene	1.1	5.5	--	ug/L	NA	NA	NA	NA	NA	NA	48 U*
2,6-Dinitrotoluene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	48 U*
2-Chloronaphthalene	470	1,500	--	ug/L	NA	NA	NA	NA	NA	NA	48 U*
2-Chlorophenol	32	130	18	ug/L	NA	NA	NA	NA	NA	NA	48 U
2-Methylnaphthalene	24	76	19	ug/L	NA	NA	NA	NA	NA	NA	48 U
2-Methylphenol	8,000	33,000	30	ug/L	NA	NA	NA	NA	NA	NA	48 U
2-Nitroaniline	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	190 U*
2-Nitrophenol	12	38	--	ug/L	NA	NA	NA	NA	NA	NA	48 U
3,3'-Dichlorobenzidine	1.6	8.2	0.3	ug/L	NA	NA	NA	NA	NA	NA	48 U

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3-Nitroaniline	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	190 U*
4,6-Dinitro-2-methylphenol	20	20	--	ug/L	NA	NA	NA	NA	NA	NA	190 U
4-Bromophenyl-phenylether	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	48 U
4-Chloro-3-Methylphenol	400	1,700	7.4	ug/L	NA	NA	NA	NA	NA	NA	48 U
4-Chloroaniline	3	9.4	--	ug/L	NA	NA	NA	NA	NA	NA	19 U
4-Chlorophenyl-phenylether	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	48 U*
4-Methylphenol	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	48 U
4-Nitroaniline	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	190 U*
4-Nitrophenol	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	190 U*
Acenaphthene	360	1,100	38	ug/L	NA	NA	NA	NA	NA	NA	48 U*
Acenaphthylene	360	1,100	--	ug/L	NA	NA	NA	NA	NA	NA	48 U*
Acetophenone	3,200	13,000	--	ug/L	NA	NA	NA	NA	NA	NA	9.6 U
Anthracene	43	43	--	ug/L	NA	NA	NA	NA	NA	NA	48 U
Atrazine	3	3	7.3	ug/L	NA	NA	NA	NA	NA	NA	9.6 U
Benzaldehyde	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	9.6 U*
Benzo(a)anthracene	2.3	9.4	--	ug/L	NA	NA	NA	NA	NA	NA	9.6 U
Benzo(a)pyrene	0.2	0.2	--	ug/L	NA	NA	NA	NA	NA	NA	9.6 U
Benzo(b)fluoranthene	1.5	1.5	--	ug/L	NA	NA	NA	NA	NA	NA	9.6 U
Benzo(g,h,i)perylene	1	1	--	ug/L	NA	NA	NA	NA	NA	NA	9.6 U
Benzo(k)fluoranthene	1	1	--	ug/L	NA	NA	NA	NA	NA	NA	9.6 U
bis(2-Chloroethoxy)methane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	48 U
bis(2-Chloroethyl)ether	1	3.3	1	ug/L	NA	NA	NA	NA	NA	NA	9.6 U
bis(2-Ethylhexyl)phthalate	6	6	14	ug/L	NA	NA	NA	NA	NA	NA	7.0 JB
Butylbenzylphthalate	80	330	67	ug/L	NA	NA	NA	NA	NA	NA	48 U
Caprolactam	2,000	9,400	--	ug/L	NA	NA	NA	NA	NA	NA	48 U
Carbazole	10	38	10	ug/L	NA	NA	NA	NA	NA	NA	96 U
Chrysene	2	2	--	ug/L	NA	NA	NA	NA	NA	NA	9.6 U
Dibenzo(a,h)anthracene	2	2.5	--	ug/L	NA	NA	NA	NA	NA	NA	19 U
Dibenzofuran	5.9	19	4	ug/L	NA	NA	NA	NA	NA	NA	38 U*
Diethylphthalate	4,700	15,000	110	ug/L	NA	NA	NA	NA	NA	NA	48 U*
Dimethylphthalate	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	48 U*
Di-n-Butylphthalate	27	110	9.7	ug/L	NA	NA	NA	NA	NA	NA	1.8 JB
Di-n-Octylphthalate	22	22	--	ug/L	NA	NA	NA	NA	NA	NA	48 U
Fluoranthene	240	260	1.6	ug/L	NA	NA	NA	NA	NA	NA	9.6 U
Fluorene	240	760	12	ug/L	NA	NA	NA	NA	NA	NA	48 U*
Hexachlorobenzene	1	1	0.2	ug/L	NA	NA	NA	NA	NA	NA	1.9 U
Hexachlorocyclopentadiene	50	50	--	ug/L	NA	NA	NA	NA	NA	NA	48 U*
Hexachloroethane	5	13	6.7	ug/L	NA	NA	NA	NA	NA	NA	48 U
Indeno(1,2,3-cd)pyrene	2	2	--	ug/L	NA	NA	NA	NA	NA	NA	19 U
Isophorone	760	3,800	1,300	ug/L	NA	NA	NA	NA	NA	NA	48 U
Nitrobenzene	12	38	180	ug/L	NA	NA	NA	NA	NA	NA	29 U
N-Nitroso-di-n-propylamine	5	5	--	ug/L	NA	NA	NA	NA	NA	NA	48 U
N-Nitrosodiphenylamine	150	750	--	ug/L	NA	NA	NA	NA	NA	NA	48 U
Pentachlorophenol	1	1	--	ug/L	NA	NA	NA	NA	NA	NA	48 U
Phenanthrene	180	570	2	ug/L	NA	NA	NA	NA	NA	NA	19 U
Phenol	1,200	5,700	450	ug/L	NA	NA	NA	NA	NA	NA	48 U
Pyrene	140	140	--	ug/L	NA	NA	NA	NA	NA	NA	48 U
Hexachloro-1,3-Butadiene	5.9	19	0.053	ug/L	NA	NA	NA	NA	NA	NA	9.6 U
Naphthalene	590	1,900	11	ug/L	NA	NA	NA	NA	NA	NA	48 U
<b>Inorganics</b>											
Antimony	6	6	130	ug/L	2.0 U	NA	NA	NA	NA	0.24 JB	NA
Arsenic	10	10	10	ug/L	2.6 B	NA	NA	NA	NA	7.9 B	NA
Barium	2,000	2,000	670	ug/L	86	NA	NA	NA	NA	160 B	NA
Beryllium	4	4	6.7	ug/L	1.0 U	NA	NA	1 U [1 U]	NA	1.0 U	NA

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**Pontiac North Campus**  
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Cadmium	5	5	2.5	ug/L	0.50 U	NA	NA	0.5 U [0.5 U]	NA	0.50 U	NA
Calcium	--	--	--	ug/L	NA	NA	NA	NA	53,800	NA	NA
Chromium	100	100	11	ug/L	1.5 JB	NA	NA	5 U [5 U]	NA	0.48 JB	NA
Cobalt	20	20	100	ug/L	0.60 JB	NA	NA	5 U [5 U]	NA	0.85 J	NA
Copper	30	95	13	ug/L	2.0 U	NA	NA	5 U [5 U]	NA	1.1 JB	NA
Cyanide (total)	--	--	--	ug/L	NA	NA	NA	NA	NA	3.3 J	NA
Iron	300	300	--	ug/L	NA	NA	NA	13,900 [22,200]	12,600	NA	NA
Lead	1	1	14	ug/L	0.11 JB	NA	NA	3 U [3 U]	NA	1.1 B	NA
Magnesium	330,000	1,000,000	--	ug/L	NA	NA	NA	NA	27,800	NA	NA
Manganese	50	50	1,300	ug/L	380	NA	NA	414 [807]	429	1,600	NA
Mercury	2	2	0.0013	ug/L	0.20 U	NA	NA	0.1 U [0.1 U]	NA	0.20 U	NA
Nickel	36	110	73	ug/L	1.6 JB	NA	NA	5 U [5 U]	NA	2.9 B	NA
Selenium	50	50	5	ug/L	0.28 J	NA	NA	5 U [5 U]	NA	0.56 J	NA
Silver	5.9	19	0.2	ug/L	0.20 U	NA	NA	5 U [5 U]	NA	NA	NA
Thallium	2	2	3.7	ug/L	1.0 U	NA	NA	2 U [2 U]	NA	1.0 U	NA
Vanadium	4	4	27	ug/L	1.7 JB	NA	NA	5 U [5 U]	NA	4.0 U	NA
Zinc	1,800	5,000	170	ug/L	10 U	NA	NA	5 U [5 U]	NA	2.1 JB	NA
<b>Inorganics-Filtered</b>											
Antimony (dissolved)	6	6	130	ug/L	2.0 U	NA	NA	NA	NA	NA	NA
Arsenic (dissolved)	10	10	10	ug/L	2.6 JB	NA	NA	NA	NA	NA	NA
Barium (dissolved)	2,000	2,000	670	ug/L	91	NA	NA	NA	NA	NA	NA
Beryllium (dissolved)	4	4	6.7	ug/L	1.0 U	NA	NA	1 U [1 U]	NA	NA	NA
Cadmium (dissolved)	5	5	2.5	ug/L	1.0 U	NA	NA	0.5 U [0.5 U]	NA	NA	NA
Chromium (dissolved)	--	--	11	ug/L	1.5 JB	NA	NA	5 U [5 U]	NA	NA	NA
Cobalt (dissolved)	20	20	100	ug/L	0.62 JB	NA	NA	5 U [5 U]	NA	NA	NA
Copper (dissolved)	30	95	13	ug/L	2.0 U	NA	NA	5 U [5 U]	NA	NA	NA
Iron (dissolved)	--	--	--	ug/L	15,000 B	NA	NA	13,200 [21,800]	12,400	11,000 B	NA
Lead (dissolved)	1	1	14	ug/L	1.0 U	NA	NA	3 U [3 U]	NA	NA	NA
Manganese (dissolved)	50	50	1,300	ug/L	390	NA	NA	419 [718]	NA	1,600	NA
Mercury (dissolved)	--	--	0.0013	ug/L	0.0013	NA	NA	0.005 U	NA	NA	NA
Nickel (dissolved)	36	110	73	ug/L	1.6 JB	NA	NA	5 U [5 U]	NA	NA	NA
Selenium (dissolved)	50	50	5	ug/L	5.0 U	NA	NA	5 U [5 U]	NA	NA	NA
Silver (dissolved)	5.9	19	0.2	ug/L	1.0 U	NA	NA	0.5 U [0.5 U]	NA	NA	NA
Thallium (dissolved)	2	2	3.7	ug/L	2.0 U	NA	NA	2 U [2 U]	NA	NA	NA
Vanadium (dissolved)	4	4	27	ug/L	1.5 JB	NA	NA	5 U [5 U]	NA	NA	NA
Zinc (dissolved)	1,800	5,000	170	ug/L	20 U	NA	NA	5 U [5 U]	NA	NA	NA
<b>Miscellaneous</b>											
Alkalinity, total (as CaCO3)	--	--	--	ug/L	NA	NA	NA	NA	496	430	NA
Hardness	--	--	--	ug/L	NA	NA	NA	NA	244	NA	NA
pH (water)	--	--	--	none	NA	NA	NA	NA	NA	7.61	NA
Total Dissolved Solids	500,000	500,000	--	ug/L	NA	NA	NA	NA	696	910	NA
Total Suspended Solids	--	--	--	ug/L	NA	NA	NA	NA	17	NA	NA
<b>Field</b>											
Conductivity, field	--	--	--	mS/cm	NA	NA	NA	NA	NA	NA	NA
Conductivity, field	--	--	--	umhos/cm	NA	NA	NA	NA	NA	NA	NA
Dissolved oxygen (DO), field	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Oxidation reduction potential (ORP), field	--	--	--	millivolts	NA	NA	NA	NA	NA	NA	NA
Temperature, ambient	--	--	--	deg f	NA	NA	NA	NA	NA	NA	NA
Temperature, field	--	--	--	deg c	NA	NA	NA	NA	NA	NA	NA
Turbidity (field)	--	--	--	NTU	NA	NA	NA	NA	NA	NA	NA
<b>Dioxins/Furans</b>											
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA

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1,2,3,4,6,7,8-HpCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,4,6,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,4,7,8-PeCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD	<b>30</b>	30	10	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total heptachlorodibenzofuran (HpCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total heptachlorodibenzo-p-dioxin (HpCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total hexachlorodibenzofuran (HxCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total hexachlorodibenzo-p-dioxin (HxCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total pentachlorodibenzofuran (PeCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total pentachlorodibenzo-p-dioxin (PeCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzofuran (TCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzo-p-dioxin (TCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA

**Table 1**  
**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW-MD-06 02/25/15 TW-MD-06 (02252015)	TW-MD-06 04/01/15 TW-MD-06 (04012015)	TW-MD-06 05/20/15 TW-MD-06_05202015	TW-MD-06 04/24/17 TW-MD-06_GW-042417	TW-MD-06 05/25/17 TW-MD-06_GW-052517	TW-MD-06 08/17/17 TW-MD-06_GW-081717	TW-MD-07 07/30/14 TW-MD-07(073014)
<b>PCBs</b>											
Aroclor-1016	0.5	0.5	0.2	ug/L	0.095 U	0.096 U	0.097 U	0.1 U	NA	NA	0.11 U
Aroclor-1221	0.5	0.5	0.2	ug/L	0.095 U	0.096 U	0.097 U	0.1 U	NA	NA	0.11 U
Aroclor-1232	0.5	0.5	0.2	ug/L	0.095 U	0.096 U	0.097 U	0.1 U	NA	NA	0.11 U
Aroclor-1242	0.5	0.5	0.2	ug/L	0.14	0.096 U	0.11	0.1	NA	NA	0.11 U
Aroclor-1248	0.5	0.5	0.2	ug/L	0.095 U	0.070 J	0.097 U	0.1 U	NA	NA	0.11 U
Aroclor-1254	0.5	0.5	0.2	ug/L	0.095 U	0.096 U	0.097 U	0.1 U	NA	NA	0.11 U
Aroclor-1260	0.5	0.5	0.2	ug/L	0.095 U	0.096 U	0.097 U	0.1 U	NA	NA	0.11 U
<b>PCBs-Filtered</b>											
Aroclor-1016 (PCB-1016) (dissolved)	0.5	0.5	0.2	ug/L	NA	0.097 U	0.097 U	NA	NA	NA	NA
Aroclor-1221 (PCB-1221) (dissolved)	0.5	0.5	0.2	ug/L	NA	0.097 U	0.097 U	NA	NA	NA	NA
Aroclor-1232 (PCB-1232) (dissolved)	0.5	0.5	0.2	ug/L	NA	0.097 U	0.097 U	NA	NA	NA	NA
Aroclor-1242 (PCB-1242) (dissolved)	0.5	0.5	0.2	ug/L	NA	0.097 U	0.097 U	NA	NA	NA	NA
Aroclor-1248 (PCB-1248) (dissolved)	0.5	0.5	0.2	ug/L	NA	0.097 U	0.097 U	NA	NA	NA	NA
Aroclor-1254 (PCB-1254) (dissolved)	0.5	0.5	0.2	ug/L	NA	0.097 U	0.097 U	NA	NA	NA	NA
Aroclor-1260 (PCB-1260) (dissolved)	0.5	0.5	0.2	ug/L	NA	0.097 U	0.097 U	NA	NA	NA	NA
<b>Volatile Organics</b>											
1,2,3-Trimethylbenzene	60	130	--	ug/L	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	24	76	19	ug/L	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	2	6.8	2	ug/L	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	13	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA
Iodomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	3,600	17,000	11,000	ug/L	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Acetone	5,300	17,000	1,700	ug/L	NA	NA	NA	NA	NA	NA	NA
Benzene	5	5	200	ug/L	NA	NA	NA	NA	NA	NA	NA
Bromobenzene	47	150	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	80	80	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Bromoform	80	80	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Bromomethane	120	380	5	ug/L	NA	NA	NA	NA	NA	NA	NA
2-Butanone	2,400	11,000	2,200	ug/L	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	270	870	--	ug/L	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	440	1,800	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	5	5	38	ug/L	NA	NA	NA	NA	NA	NA	NA
CFC-11	1,800	5,700	--	ug/L	NA	NA	NA	NA	NA	NA	NA
CFC-12	30	94	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	100	100	25	ug/L	NA	NA	NA	NA	NA	NA	NA
Chlorobromomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Chlorodibromomethane	80	80	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Chloroethane	240	760	1,100	ug/L	NA	NA	NA	NA	NA	NA	NA
Chloroform	80	80	350	ug/L	NA	NA	NA	NA	NA	NA	NA
Chloromethane	220	1,100	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Cymene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.2	0.2	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	0.05	0.05	5.7	ug/L	NA	NA	NA	NA	NA	NA	NA
Dibromomethane	18	57	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	600	13	ug/L	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	12	38	28	ug/L	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	75	17	ug/L	NA	NA	NA	NA	NA	NA	NA

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**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW-MD-06 02/25/15 TW-MD-06 (02252015)	TW-MD-06 04/01/15 TW-MD-06 (04012015)	TW-MD-06 05/20/15 TW-MD-06_05202015	TW-MD-06 04/24/17 TW-MD-06_GW-042417	TW-MD-06 05/25/17 TW-MD-06_GW-052517	TW-MD-06 08/17/17 TW-MD-06_GW-081717	TW-MD-07 07/30/14 TW-MD-07(073014)
1,1-Dichloroethane	1,200	3,800	740	ug/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	5	5	360	ug/L	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	7	7	130	ug/L	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	70	70	620	ug/L	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	100	100	1,500	ug/L	NA	NA	NA	NA	NA	NA	NA
Dichloromethane	5	5	1,500	ug/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	5	5	230	ug/L	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Diethyl Ether	5	5	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	7.2	37	2,800	ug/L	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	66	74	18	ug/L	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	590	1,900	28	ug/L	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Methyl N-Butyl Ketone	50	94	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	300	940	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	40	40	7,100	ug/L	NA	NA	NA	NA	NA	NA	NA
Naphthalene	590	1,900	11	ug/L	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Styrene	100	100	80	ug/L	NA	NA	NA	NA	NA	NA	NA
1,1,1,2-Tetrachloroethane	28	140	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	3.6	18	78	ug/L	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	5	5	60	ug/L	NA	NA	NA	NA	NA	NA	NA
Toluene	470	790	270	ug/L	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	16	51	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	70	99	ug/L	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	89	ug/L	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	5	5	330	ug/L	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	5	5	200	ug/L	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	1	1	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	160,000	170,000	32	ug/L	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	60	63	17	ug/L	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	60	72	45	ug/L	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	2	2	13	ug/L	NA	NA	NA	NA	NA	NA	NA
o-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	280	280	41	ug/L	NA	NA	NA	NA	NA	NA	NA
<b>Semivolatile Organics</b>											
1,1'-Biphenyl	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	180	570	--	ug/L	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	40	170	5	ug/L	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	80	330	11	ug/L	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	120	380	380	ug/L	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	12	38	19	ug/L	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	1.1	5.5	--	ug/L	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	470	1,500	--	ug/L	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	32	130	18	ug/L	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	24	76	19	ug/L	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	8,000	33,000	30	ug/L	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	12	38	--	ug/L	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	1.6	8.2	0.3	ug/L	NA	NA	NA	NA	NA	NA	NA

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**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW-MD-06 02/25/15 TW-MD-06 (02252015)	TW-MD-06 04/01/15 TW-MD-06 (04012015)	TW-MD-06 05/20/15 TW-MD-06_05202015	TW-MD-06 04/24/17 TW-MD-06_GW-042417	TW-MD-06 05/25/17 TW-MD-06_GW-052517	TW-MD-06 08/17/17 TW-MD-06_GW-081717	TW-MD-07 07/30/14 TW-MD-07(073014)
3-Nitroaniline	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	20	20	--	ug/L	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	400	1,700	7.4	ug/L	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	3	9.4	--	ug/L	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	360	1,100	38	ug/L	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	360	1,100	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Acetophenone	3,200	13,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Anthracene	43	43	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Atrazine	3	3	7.3	ug/L	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	2.3	9.4	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.2	0.2	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	1.5	1.5	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	1	1	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1	1	--	ug/L	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	1	3.3	1	ug/L	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	6	6	14	ug/L	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	80	330	67	ug/L	NA	NA	NA	NA	NA	NA	NA
Caprolactam	2,000	9,400	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Carbazole	10	38	10	ug/L	NA	NA	NA	NA	NA	NA	NA
Chrysene	2	2	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	2	2.5	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	5.9	19	4	ug/L	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	4,700	15,000	110	ug/L	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	27	110	9.7	ug/L	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	22	22	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	240	260	1.6	ug/L	NA	NA	NA	NA	NA	NA	NA
Fluorene	240	760	12	ug/L	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	1	1	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	50	50	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	13	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	2	2	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Isophorone	760	3,800	1,300	ug/L	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	12	38	180	ug/L	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	5	5	--	ug/L	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	150	750	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	1	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	180	570	2	ug/L	NA	NA	NA	NA	NA	NA	NA
Phenol	1,200	5,700	450	ug/L	NA	NA	NA	NA	NA	NA	NA
Pyrene	140	140	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Hexachloro-1,3-Butadiene	5.9	19	0.053	ug/L	NA	NA	NA	NA	NA	NA	NA
Naphthalene	590	1,900	11	ug/L	NA	NA	NA	NA	NA	NA	NA
<b>Inorganics</b>											
Antimony	6	6	130	ug/L	0.62 J	2.0 U	0.36 JB	NA	NA	NA	0.27 JB
Arsenic	10	10	10	ug/L	5.6	4.8 B	7.6 B	NA	NA	NA	2.6 B
Barium	2,000	2,000	670	ug/L	140	120	120	NA	NA	NA	230 B
Beryllium	4	4	6.7	ug/L	0.24 J	0.18 J	0.87 J	1 U	NA	NA	1.0 U

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Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW-MD-06 02/25/15 <small>TW-MD-06 (02252015)</small>	TW-MD-06 04/01/15 <small>TW-MD-06 (04012015)</small>	TW-MD-06 05/20/15 <small>TW-MD-06_05202015</small>	TW-MD-06 04/24/17 <small>TW-MD-06_GW-042417</small>	TW-MD-06 05/25/17 <small>TW-MD-06_GW-052517</small>	TW-MD-06 08/17/17 <small>TW-MD-06_GW-081717</small>	TW-MD-07 07/30/14 <small>TW-MD-07(073014)</small>
Cadmium	5	5	2.5	ug/L	0.51 B	0.19 JB	0.85 B	0.5 U	NA	NA	0.50 U
Calcium	--	--	--	ug/L	NA	NA	NA	NA	142,000	NA	NA
Chromium	100	100	11	ug/L	1.2 J	1.5 JB	2.2 B	5 U	NA	NA	0.33 JB
Cobalt	20	20	100	ug/L	0.62 JB	0.50 J	0.79 JB	5 U	NA	NA	0.49 J
Copper	30	95	13	ug/L	1.3 J	2.0 U	0.77 JB	5 U	NA	NA	0.50 JB
Cyanide (total)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Iron	300	300	--	ug/L	NA	NA	NA	21,200	17,200	22,100	NA
Lead	1	1	14	ug/L	0.26 J	0.24 JB	0.50 JB	3 U	NA	NA	0.28 JB
Magnesium	330,000	1,000,000	--	ug/L	NA	NA	NA	NA	42,200	NA	NA
Manganese	50	50	1,300	ug/L	1,300 B	1,600	1,200	738	634	NA	220
Mercury	2	2	0.0013	ug/L	0.20 U	0.20 U	0.20 U	0.1 U	NA	NA	0.20 U
Nickel	36	110	73	ug/L	1.6 J	1.1 J	1.5 J	5 U	NA	NA	1.4 JB
Selenium	50	50	5	ug/L	0.59 J	0.30 J	1.8 JB	5 U	NA	NA	0.56 J
Silver	5.9	19	0.2	ug/L	0.20 U	0.20 U	0.032 JB	5 U	NA	NA	NA
Thallium	2	2	3.7	ug/L	0.19 J	1.0 U	0.55 JB	2 U	NA	NA	1.0 U
Vanadium	4	4	27	ug/L	0.66 J	0.61 JB	1.2 JB	5 U	NA	NA	4.0 U
Zinc	1,800	5,000	170	ug/L	10 U	10 U	10 U	5 U	NA	NA	10 U
<b>Inorganics-Filtered</b>											
Antimony (dissolved)	6	6	130	ug/L	0.55 J	2.0 U	2.0 U	NA	NA	NA	NA
Arsenic (dissolved)	10	10	10	ug/L	5.6	4.9 JB	6.5 B	NA	NA	NA	NA
Barium (dissolved)	2,000	2,000	670	ug/L	140	120	130	NA	NA	NA	NA
Beryllium (dissolved)	4	4	6.7	ug/L	0.56 J	0.11 J	0.15 J	1 U	NA	NA	NA
Cadmium (dissolved)	5	5	2.5	ug/L	0.81 JB	0.11 JB	0.52 JB	0.5 U	NA	NA	NA
Chromium (dissolved)	--	--	11	ug/L	1.3 J	1.4 JB	2.6 B	5 U	NA	NA	NA
Cobalt (dissolved)	20	20	100	ug/L	0.70 JB	0.52 J	0.64 JB	5 U	NA	NA	NA
Copper (dissolved)	30	95	13	ug/L	1.5 J	2.0 U	2.0 U	5 U	NA	NA	NA
Iron (dissolved)	--	--	--	ug/L	13,000	12,000	12,000 B	21,600	17,000	21,500	20,000 B
Lead (dissolved)	1	1	14	ug/L	0.32 J	1.0 U	0.17 JB	3 U	NA	NA	NA
Manganese (dissolved)	50	50	1,300	ug/L	1,300 B	1,500 ^	1,300	736	NA	NA	220
Mercury (dissolved)	--	--	0.0013	ug/L	0.20 U	0.20 U	0.00023 J	0.005 U	NA	NA	NA
Nickel (dissolved)	36	110	73	ug/L	1.5 J	1.1 J	1.7 J	5 U	NA	NA	NA
Selenium (dissolved)	50	50	5	ug/L	0.80 J	0.30 J	0.79 JB	5 U	NA	NA	NA
Silver (dissolved)	5.9	19	0.2	ug/L	0.023 J	1.0 U	1.0 U	0.5 U	NA	NA	NA
Thallium (dissolved)	2	2	3.7	ug/L	0.27 J	2.0 U	0.13 JB	2 U	NA	NA	NA
Vanadium (dissolved)	4	4	27	ug/L	0.67 J	0.62 JB	1.3 JB	5 U	NA	NA	NA
Zinc (dissolved)	1,800	5,000	170	ug/L	20 U	20 U	20 U	5 U	NA	NA	NA
<b>Miscellaneous</b>											
Alkalinity, total (as CaCO3)	--	--	--	ug/L	NA	NA	NA	NA	452	NA	NA
Hardness	--	--	--	ug/L	NA	NA	NA	NA	524	NA	NA
pH (water)	--	--	--	none	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	500,000	500,000	--	ug/L	NA	NA	NA	NA	1,138	NA	NA
Total Suspended Solids	--	--	--	ug/L	NA	NA	NA	NA	34	NA	NA
<b>Field</b>											
Conductivity, field	--	--	--	mS/cm	NA	NA	NA	NA	NA	NA	NA
Conductivity, field	--	--	--	umhos/cm	NA	NA	NA	NA	NA	NA	NA
Dissolved oxygen (DO), field	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Oxidation reduction potential (ORP), field	--	--	--	millivolts	NA	NA	NA	NA	NA	NA	NA
Temperature, ambient	--	--	--	deg f	NA	NA	NA	NA	NA	NA	NA
Temperature, field	--	--	--	deg c	NA	NA	NA	NA	NA	NA	NA
Turbidity (field)	--	--	--	NTU	NA	NA	NA	NA	NA	NA	NA
<b>Dioxins/Furans</b>											
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA

**Table 1**  
**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW-MD-06 02/25/15 <small>TW-MD-06 (02252015)</small>	TW-MD-06 04/01/15 <small>TW-MD-06 (04012015)</small>	TW-MD-06 05/20/15 <small>TW-MD-06_05202015</small>	TW-MD-06 04/24/17 <small>TW-MD-06_GW-042417</small>	TW-MD-06 05/25/17 <small>TW-MD-06_GW-052517</small>	TW-MD-06 08/17/17 <small>TW-MD-06_GW-081717</small>	TW-MD-07 07/30/14 <small>TW-MD-07(073014)</small>
1,2,3,4,6,7,8-HpCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,4,6,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,4,7,8-PeCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD	<b>30</b>	<b>30</b>	<b>10</b>	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total heptachlorodibenzofuran (HpCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total heptachlorodibenzo-p-dioxin (HpCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total hexachlorodibenzofuran (HxCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total hexachlorodibenzo-p-dioxin (HxCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total pentachlorodibenzofuran (PeCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total pentachlorodibenzo-p-dioxin (PeCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzofuran (TCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzo-p-dioxin (TCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA

**Table 1**  
**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW-MD-07 09/05/14 TW-MD-07_090514	TW-MD-07 02/25/15 TW-MD-07 (02252015)	TW-MD-07 04/01/15 TW-MD-07 (04012015)	TW-MD-07 05/20/15 TW-MD-07_05202015	TW-MD-07 12/20/16 TWMD-07-GW-122016	TW-MD-07 04/24/17 TW-MD-07_GW-042417	TW-MD-07 05/25/17 TW-MD-07_GW-052517
<b>PCBs</b>											
Aroclor-1016	0.5	0.5	0.2	ug/L	0.099 U	0.10 U	0.10 U [0.1 U]	0.095 U	NA	0.1 U	NA
Aroclor-1221	0.5	0.5	0.2	ug/L	0.099 U	0.10 U	0.10 U [0.1 U]	0.095 U	NA	0.1 U	NA
Aroclor-1232	0.5	0.5	0.2	ug/L	0.099 U	0.10 U	0.10 U [0.1 U]	0.095 U	NA	0.1 U	NA
Aroclor-1242	0.5	0.5	0.2	ug/L	0.099 U	0.10 U	0.10 U [0.1 U]	0.095 U	NA	0.1 U	NA
Aroclor-1248	0.5	0.5	0.2	ug/L	0.099 U	0.10 U	0.10 U [0.1 U]	0.095 U	NA	0.1 U	NA
Aroclor-1254	0.5	0.5	0.2	ug/L	0.099 U	0.10 U	0.10 U [0.1 U]	0.095 U	NA	0.1 U	NA
Aroclor-1260	0.5	0.5	0.2	ug/L	0.099 U	0.10 U	0.10 U [0.1 U]	0.095 U	NA	0.1 U	NA
<b>PCBs-Filtered</b>											
Aroclor-1016 (PCB-1016) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	0.097 U [0.097 U]	0.095 U	NA	NA	NA
Aroclor-1221 (PCB-1221) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	0.097 U [0.097 U]	0.095 U	NA	NA	NA
Aroclor-1232 (PCB-1232) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	0.097 U [0.097 U]	0.095 U	NA	NA	NA
Aroclor-1242 (PCB-1242) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	0.097 U [0.097 U]	0.095 U	NA	NA	NA
Aroclor-1248 (PCB-1248) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	0.097 U [0.097 U]	0.095 U	NA	NA	NA
Aroclor-1254 (PCB-1254) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	0.097 U [0.097 U]	0.095 U	NA	NA	NA
Aroclor-1260 (PCB-1260) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	0.097 U [0.097 U]	0.095 U	NA	NA	NA
<b>Volatile Organics</b>											
1,2,3-Trimethylbenzene	60	130	--	ug/L	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	24	76	19	ug/L	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	2	6.8	2	ug/L	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	13	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA
Iodomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	--	--	--	ug/L	NA	NA	NA	NA	2 U	NA	NA
Tetrahydrofuran	3,600	17,000	11,000	ug/L	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Acetone	5,300	17,000	1,700	ug/L	25 U	NA	NA	NA	50 U	NA	NA
Benzene	5	5	200	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
Bromobenzene	47	150	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	80	80	--	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
Bromoform	80	80	--	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
Bromomethane	120	380	5	ug/L	1.0 U	NA	NA	NA	5 U	NA	NA
2-Butanone	2,400	11,000	2,200	ug/L	25 U	NA	NA	NA	25 U	NA	NA
n-Butylbenzene	270	870	--	ug/L	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	440	1,800	--	ug/L	5.0 U	NA	NA	NA	5 U	NA	NA
Carbon Tetrachloride	5	5	38	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
CFC-11	1,800	5,700	--	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
CFC-12	30	94	--	ug/L	1.0 U	NA	NA	NA	5 U	NA	NA
Chlorobenzene	100	100	25	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
Chlorobromomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Chlorodibromomethane	80	80	--	ug/L	1.0 U	NA	NA	NA	5 U	NA	NA
Chloroethane	240	760	1,100	ug/L	1.0 U	NA	NA	NA	5 U	NA	NA
Chloroform	80	80	350	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
Chloromethane	220	1,100	--	ug/L	1.0 U	NA	NA	NA	5 U	NA	NA
Cyclohexane	--	--	--	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
Cymene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.2	0.2	--	ug/L	1.0 U	NA	NA	NA	5 U	NA	NA
1,2-Dibromoethane	0.05	0.05	5.7	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
Dibromomethane	18	57	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	600	13	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
1,3-Dichlorobenzene	12	38	28	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
1,4-Dichlorobenzene	75	75	17	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA

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**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW-MD-07 09/05/14 TW-MD-07_090514	TW-MD-07 02/25/15 TW-MD-07 (02252015)	TW-MD-07 04/01/15 TW-MD-07 (04012015)	TW-MD-07 05/20/15 TW-MD-07_05202015	TW-MD-07 12/20/16 TWMD-07-GW-122016	TW-MD-07 04/24/17 TW-MD-07_GW-042417	TW-MD-07 05/25/17 TW-MD-07_GW-052517
1,1-Dichloroethane	1,200	3,800	740	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
1,2-Dichloroethane	5	5	360	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
1,1-Dichloroethene	7	7	130	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
cis-1,2-Dichloroethene	70	70	620	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
trans-1,2-Dichloroethene	100	100	1,500	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
Dichloromethane	5	5	1,500	ug/L	5.0 U	NA	NA	NA	5 U	NA	NA
1,2-Dichloropropane	5	5	230	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
cis-1,3-Dichloropropene	--	--	--	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
trans-1,3-Dichloropropene	--	--	--	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
Diethyl Ether	5	5	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	7.2	37	2,800	ug/L	NA	NA	NA	NA	3 U	NA	NA
Ethylbenzene	66	74	18	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
Isopropylbenzene	590	1,900	28	ug/L	5.0 U	NA	NA	NA	1 U	NA	NA
Methyl acetate	--	--	--	ug/L	10 U	NA	NA	NA	10 U	NA	NA
Methyl N-Butyl Ketone	50	94	--	ug/L	50 U	NA	NA	NA	50 U	NA	NA
Methylcyclohexane	--	--	--	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
4-Methyl-2-pentanone	300	940	--	ug/L	50 U	NA	NA	NA	50 U	NA	NA
Methyl tert-butyl ether	40	40	7,100	ug/L	5.0 U	NA	NA	NA	5 U	NA	NA
Naphthalene	590	1,900	11	ug/L	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	590	1,900	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Styrene	100	100	80	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
1,1,1,2-Tetrachloroethane	28	140	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	3.6	18	78	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
Tetrachloroethene	5	5	60	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
Toluene	470	790	270	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
1,2,3-Trichlorobenzene	16	51	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	70	99	ug/L	1.0 U	NA	NA	NA	5 U	NA	NA
1,1,1-Trichloroethane	200	200	89	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
1,1,2-Trichloroethane	5	5	330	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
Trichloroethene	5	5	200	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
1,2,3-Trichloropropane	1	1	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	160,000	170,000	32	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
1,2,4-Trimethylbenzene	60	63	17	ug/L	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	60	72	45	ug/L	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	2	2	13	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
o-Xylene	--	--	--	ug/L	NA	NA	NA	NA	1 U	NA	NA
Total Xylenes	280	280	41	ug/L	2.0 U	NA	NA	NA	NA	NA	NA
<b>Semivolatile Organics</b>											
1,1'-Biphenyl	--	--	--	ug/L	9.6 U	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	--	--	--	ug/L	9.6 U	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	180	570	--	ug/L	48 U	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	40	170	5	ug/L	38 U	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	80	330	11	ug/L	96 U	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	120	380	380	ug/L	48 U	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	12	38	19	ug/L	190 U	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	1.1	5.5	--	ug/L	48 U	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	--	--	--	ug/L	48 U	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	470	1,500	--	ug/L	48 U	NA	NA	NA	NA	NA	NA
2-Chlorophenol	32	130	18	ug/L	48 U	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	24	76	19	ug/L	48 U	NA	NA	NA	NA	NA	NA
2-Methylphenol	8,000	33,000	30	ug/L	48 U	NA	NA	NA	NA	NA	NA
2-Nitroaniline	--	--	--	ug/L	190 U	NA	NA	NA	NA	NA	NA
2-Nitrophenol	12	38	--	ug/L	48 U	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	1.6	8.2	0.3	ug/L	48 U	NA	NA	NA	NA	NA	NA

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**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW-MD-07 09/05/14 TW-MD-07_090514	TW-MD-07 02/25/15 TW-MD-07 (02252015)	TW-MD-07 04/01/15 TW-MD-07 (04012015)	TW-MD-07 05/20/15 TW-MD-07_05202015	TW-MD-07 12/20/16 TWMD-07-GW-122016	TW-MD-07 04/24/17 TW-MD-07_GW-042417	TW-MD-07 05/25/17 TW-MD-07_GW-052517
3-Nitroaniline	--	--	--	ug/L	190 U	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	20	20	--	ug/L	190 U	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	--	--	--	ug/L	48 U	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	400	1,700	7.4	ug/L	48 U	NA	NA	NA	NA	NA	NA
4-Chloroaniline	3	9.4	--	ug/L	19 U	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	--	--	--	ug/L	48 U	NA	NA	NA	NA	NA	NA
4-Methylphenol	--	--	--	ug/L	48 U	NA	NA	NA	NA	NA	NA
4-Nitroaniline	--	--	--	ug/L	190 U	NA	NA	NA	NA	NA	NA
4-Nitrophenol	--	--	--	ug/L	190 U	NA	NA	NA	NA	NA	NA
Acenaphthene	360	1,100	38	ug/L	48 U	NA	NA	NA	NA	NA	NA
Acenaphthylene	360	1,100	--	ug/L	48 U	NA	NA	NA	NA	NA	NA
Acetophenone	3,200	13,000	--	ug/L	9.6 U	NA	NA	NA	NA	NA	NA
Anthracene	43	43	--	ug/L	48 U	NA	NA	NA	NA	NA	NA
Atrazine	3	3	7.3	ug/L	9.6 U	NA	NA	NA	NA	NA	NA
Benzaldehyde	--	--	--	ug/L	9.6 U*	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	2.3	9.4	--	ug/L	9.6 U	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.2	0.2	--	ug/L	9.6 U	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	1.5	1.5	--	ug/L	9.6 U	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	1	1	--	ug/L	9.6 U	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1	1	--	ug/L	9.6 U	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	--	--	--	ug/L	48 U	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	1	3.3	1	ug/L	9.6 U	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	6	6	14	ug/L	2.9 JB	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	80	330	67	ug/L	48 U	NA	NA	NA	NA	NA	NA
Caprolactam	2,000	9,400	--	ug/L	48 U	NA	NA	NA	NA	NA	NA
Carbazole	10	38	10	ug/L	96 U	NA	NA	NA	NA	NA	NA
Chrysene	2	2	--	ug/L	9.6 U	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	2	2.5	--	ug/L	19 U	NA	NA	NA	NA	NA	NA
Dibenzofuran	5.9	19	4	ug/L	38 U	NA	NA	NA	NA	NA	NA
Diethylphthalate	4,700	15,000	110	ug/L	48 U	NA	NA	NA	NA	NA	NA
Dimethylphthalate	590	1,900	--	ug/L	48 U	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	27	110	9.7	ug/L	1.3 JB	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	22	22	--	ug/L	48 U	NA	NA	NA	NA	NA	NA
Fluoranthene	240	260	1.6	ug/L	9.6 U	NA	NA	NA	NA	NA	NA
Fluorene	240	760	12	ug/L	48 U	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	1	1	0.2	ug/L	1.9 U	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	50	50	--	ug/L	48 U	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	13	6.7	ug/L	48 U	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	2	2	--	ug/L	19 U	NA	NA	NA	NA	NA	NA
Isophorone	760	3,800	1,300	ug/L	48 U	NA	NA	NA	NA	NA	NA
Nitrobenzene	12	38	180	ug/L	29 U	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	5	5	--	ug/L	48 U	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	150	750	--	ug/L	48 U	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	1	--	ug/L	48 U	NA	NA	NA	NA	NA	NA
Phenanthrene	180	570	2	ug/L	19 U	NA	NA	NA	NA	NA	NA
Phenol	1,200	5,700	450	ug/L	48 U	NA	NA	NA	NA	NA	NA
Pyrene	140	140	--	ug/L	48 U	NA	NA	NA	NA	NA	NA
Hexachloro-1,3-Butadiene	5.9	19	0.053	ug/L	9.6 U	NA	NA	NA	NA	NA	NA
Naphthalene	590	1,900	11	ug/L	48 U	NA	NA	NA	NA	NA	NA
<b>Inorganics</b>											
Antimony	6	6	130	ug/L	NA	0.24 J	2.0 U [0.27 J]	2.0 U	NA	NA	NA
Arsenic	10	10	10	ug/L	NA	1.3 J	1.7 JB [1.7 JB]	1.5 JB	NA	NA	NA
Barium	2,000	2,000	670	ug/L	NA	280	280 [280]	280	NA	NA	NA
Beryllium	4	4	6.7	ug/L	NA	0.19 J	0.081 J [0.064 J]	0.071 J	NA	1 U	NA

**Table 1**  
**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW-MD-07 09/05/14 TW-MD-07_090514	TW-MD-07 02/25/15 TW-MD-07 (02252015)	TW-MD-07 04/01/15 TW-MD-07 (04012015)	TW-MD-07 05/20/15 TW-MD-07_05202015	TW-MD-07 12/20/16 TWMD-07-GW-122016	TW-MD-07 04/24/17 TW-MD-07_GW-042417	TW-MD-07 05/25/17 TW-MD-07_GW-052517
Cadmium	5	5	2.5	ug/L	NA	0.38 JB	0.18 JB [0.14 JB]	0.43 JB	NA	0.5 U	NA
Calcium	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	93,000
Chromium	100	100	11	ug/L	NA	1.2 J	1.6 JB [1.5 JB]	2.1 B	NA	5 U	NA
Cobalt	20	20	100	ug/L	NA	0.54 JB	0.37 J [0.34 J]	0.50 JB	NA	5 U	NA
Copper	30	95	13	ug/L	NA	2.0 U	2.0 U [2 U]	2.0 U	NA	5 U	NA
Cyanide (total)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Iron	300	300	--	ug/L	NA	NA	NA	NA	NA	13,300	12,900
Lead	1	1	14	ug/L	NA	0.21 J	1.0 U [1 U]	0.18 JB	NA	3 U	NA
Magnesium	330,000	1,000,000	--	ug/L	NA	NA	NA	NA	NA	NA	27,200
Manganese	50	50	1,300	ug/L	NA	210 B	430 [430]	190	NA	257	134
Mercury	2	2	0.0013	ug/L	NA	0.20 U	0.20 U [0.2 U]	0.22	NA	0.1 U	NA
Nickel	36	110	73	ug/L	NA	0.97 J	0.71 J [0.64 J]	0.76 J	NA	5 U	NA
Selenium	50	50	5	ug/L	NA	0.52 J	0.37 J [0.39 J]	0.55 JB	NA	5 U	NA
Silver	5.9	19	0.2	ug/L	NA	0.20 U	0.20 U [0.2 U]	0.023 JB	NA	5 U	NA
Thallium	2	2	3.7	ug/L	NA	0.10 J	1.0 U [1 U]	1.0 U	NA	2 U	NA
Vanadium	4	4	27	ug/L	NA	0.54 J	0.63 JB [0.65 JB]	0.93 JB	NA	5 U	NA
Zinc	1,800	5,000	170	ug/L	NA	12	10 U [10 U]	10 U	NA	5 U	NA
<b>Inorganics-Filtered</b>											
Antimony (dissolved)	6	6	130	ug/L	NA	0.17 J	2.0 U [0.16 J]	2.0 U	NA	NA	NA
Arsenic (dissolved)	10	10	10	ug/L	NA	1.2 J	1.7 JB [1.8 JB]	1.5 JB	NA	NA	NA
Barium (dissolved)	2,000	2,000	670	ug/L	NA	280	270 [280]	280	NA	NA	NA
Beryllium (dissolved)	4	4	6.7	ug/L	NA	0.14 J	0.094 J [0.058 J]	0.072 J	NA	1 U	NA
Cadmium (dissolved)	5	5	2.5	ug/L	NA	0.30 JB	0.13 JB [0.14 JB]	0.41 JB	NA	0.5 U	NA
Chromium (dissolved)	--	--	11	ug/L	NA	1.2 J	1.4 JB [1.7 JB]	2.1 B	NA	5 U	NA
Cobalt (dissolved)	20	20	100	ug/L	NA	0.48 JB	0.37 J [0.37 J]	0.51 JB	NA	5 U	NA
Copper (dissolved)	30	95	13	ug/L	NA	2.0 U	2.0 U [2 U]	2.0 U	NA	5 U	NA
Iron (dissolved)	--	--	--	ug/L	NA	23,000	28,000 [28,000]	23,000 B	NA	12,800	12,800
Lead (dissolved)	1	1	14	ug/L	NA	0.12 J	1.0 U [1 U]	0.13 JB	NA	3 U	NA
Manganese (dissolved)	50	50	1,300	ug/L	NA	200 B	460 [460]	180	NA	278	NA
Mercury (dissolved)	--	--	0.0013	ug/L	NA	0.20 U	0.20 U [0.2 U]	0.0005 U	NA	0.005 U	NA
Nickel (dissolved)	36	110	73	ug/L	NA	0.90 J	0.58 J [0.63 J]	0.80 J	NA	5 U	NA
Selenium (dissolved)	50	50	5	ug/L	NA	0.42 J	0.25 J [0.32 J]	0.51 JB	NA	5 U	NA
Silver (dissolved)	5.9	19	0.2	ug/L	NA	1.0 U	1.0 U [1 U]	1.0 U	NA	0.5 U	NA
Thallium (dissolved)	2	2	3.7	ug/L	NA	2.0 U	2.0 U [2 U]	2.0 U	NA	2 U	NA
Vanadium (dissolved)	4	4	27	ug/L	NA	0.58 J	0.57 JB [0.71 JB]	0.96 JB	NA	5 U	NA
Zinc (dissolved)	1,800	5,000	170	ug/L	NA	20 U	20 U [20 U]	20 U	NA	13	NA
<b>Miscellaneous</b>											
Alkalinity, total (as CaCO3)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	604
Hardness	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	341
pH (water)	--	--	--	none	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	500,000	500,000	--	ug/L	NA	NA	NA	NA	NA	NA	1,006
Total Suspended Solids	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	20
<b>Field</b>											
Conductivity, field	--	--	--	mS/cm	NA	NA	NA	NA	NA	NA	NA
Conductivity, field	--	--	--	umhos/cm	NA	NA	NA	NA	NA	NA	NA
Dissolved oxygen (DO), field	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Oxidation reduction potential (ORP), field	--	--	--	millivolts	NA	NA	NA	NA	NA	NA	NA
Temperature, ambient	--	--	--	deg f	NA	NA	NA	NA	NA	NA	NA
Temperature, field	--	--	--	deg c	NA	NA	NA	NA	NA	NA	NA
Turbidity (field)	--	--	--	NTU	NA	NA	NA	NA	NA	NA	NA
<b>Dioxins/Furans</b>											
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA

**Table 1**  
**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Location ID: Date Collected: Sample Name:	MDEQ 2016 DRAFT Res DW	MDEQ 2016 DRAFT Non- Res DW	MDEQ 2016 DRAFT GSWI	Units	TW-MD-07 09/05/14 TW-MD-07_090514	TW-MD-07 02/25/15 TW-MD-07 (02252015)	TW-MD-07 04/01/15 TW-MD-07 (04012015)	TW-MD-07 05/20/15 TW-MD-07_05202015	TW-MD-07 12/20/16 TWMD-07-GW-122016	TW-MD-07 04/24/17 TW-MD-07_GW-042417	TW-MD-07 05/25/17 TW-MD-07_GW-052517
1,2,3,4,6,7,8-HpCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,4,6,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,4,7,8-PeCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD	30	30	10	pg/L	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total heptachlorodibenzofuran (HpCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total heptachlorodibenzo-p-dioxin (HpCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total hexachlorodibenzofuran (HxCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total hexachlorodibenzo-p-dioxin (HxCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total pentachlorodibenzofuran (PeCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total pentachlorodibenzo-p-dioxin (PeCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzofuran (TCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzo-p-dioxin (TCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA

**Table 1**  
**Monitoring Well Chemical Concentrations**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

**Notes:**

**BOLD** Bold values exceed residential drinking water criteria  
*Italics* Italicized values exceed non residential criteria  
 Shaded values exceed groundwater surface water interface criteria  
 Duplicate analyses are presented in brackets

**Footnotes:**

1. Criteria listed are from the the Michigan Department of Environmental Quality (MDEQ) Part 201 Draft Proposed MDEQ Clean Up Criteria Requirements Table 1: Groundwater: Residential and Nonresidential, Part 201 Generic Cleanup Criteria and Screening Levels, April 27, 2016.

**Abbreviations:**

DW = Drinking water  
 GSI = Groundwater surface water interface  
 PCBs = Polychlorinated biphenyls  
 NA = Not applicable  
 ug/L = micrograms per liter  
 mS/cm = millisiemens per centimeter  
 umhos/cm = micromhos  
 deg f = degree fahrenheit  
 deg c = degree celcius  
 NTU = nephelometric turbidity unit  
 pg/L = picograms per liter

Qualifier Type	Definition
Inorganic	B = Analyte was also detected in the associated method blank.
Inorganic	H = Parameter was analyzed out of holding time.
Inorganic	J = Indicates an estimated value.
Inorganic	R = Rejected.
Inorganic	U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
Organic	* = Laboratory duplicate analysis was outside control limits.
Organic	B = Analyte was also detected in the associated method blank.
Organic	H = Parameter was analyzed out of holding time.
Organic	J Indicates an estimated value.
Organic	R = Rejected.
Organic	U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
	^ = Instrument related quality control exceeds the control limits.
	q = The isomer is qualified as positively identified, but at an estimated quantity because the quantitation is based on the theoretical ratio for these samples.

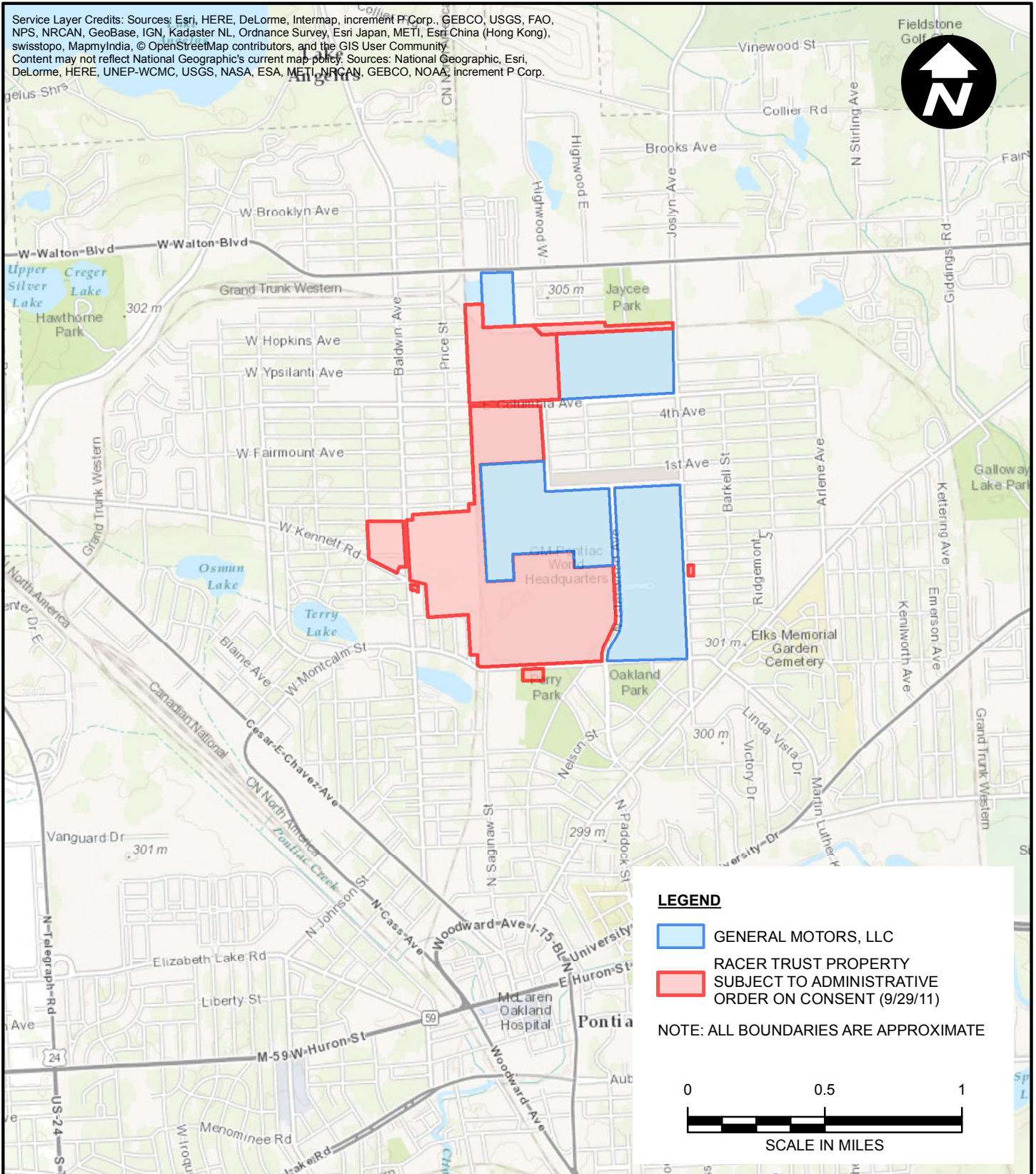
**Table 2**  
**Proposed Monitoring Well Network**  
**RACER Trust**  
**Pontiac North Campus**  
**Pontiac, MI**

Monitoring Well	Purpose	Parameters	Frequency
INJ-01, INJ-02, MW-03-17, MW-04-17, TW-09-01, MWW5-01, Sump	Monitoring injection location influence extent	Fluid level gauging, water quality parameters (dissolved oxygen, pH, temperature, conductivity, oxidation reduction potential, total dissolved solids, iron, and hardness)	1x/month for first 3 months, semi-annually thereafter
		Geochemical analytical (calcium, iron, magnesium, manganese, alkalinity, hardness, dissolved solids, suspended solids)	1x/year
TW-10-02, TW-10-01, TW-01-03, MWW10-SEN02, MWW10-SEN03, MWW10-SEN04	Monitoring downgradient influence of injection and contaminant mobility	Fluid level gauging	1x/year
MWW10-SEN02, MWW10-SEN03, MWW10-SEN04		Water quality parameters, geochemical analytical, PCBs, volatile organics, inorganics	1x/year
TW-MD-01, TW-MD-02, TW-MD-03, TW-MD-04, TW-MD-05, TW-MD-06, TW-MD-07, MWW1-15	Monitoring seep area dewatering influence	Fluid level gauging	1x/month for first 3 months, semi-annually thereafter
		Water quality parameters, geochemical analytical, PCBs, volatile organics, inorganics	1x/year

# FIGURES



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**LEGEND**

- GENERAL MOTORS, LLC
- RACER TRUST PROPERTY  
SUBJECT TO ADMINISTRATIVE  
ORDER ON CONSENT (9/29/11)

NOTE: ALL BOUNDARIES ARE APPROXIMATE

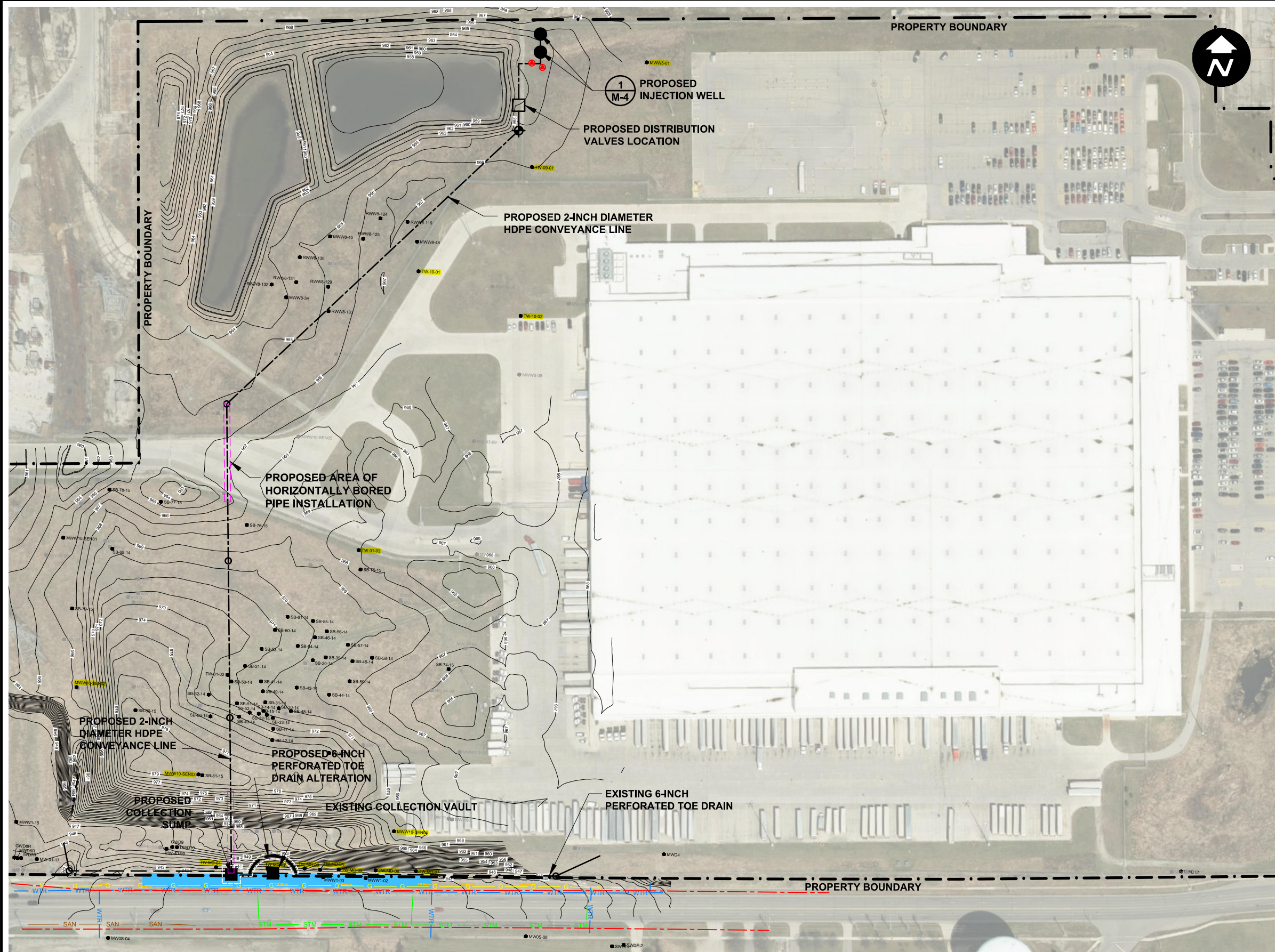


RACER TRUST  
 PONTIAC NORTH CAMPUS  
 PONTIAC, MICHIGAN

**SITE LOCATION**

PROJECT NUMBER: B0064411.0001.00145  
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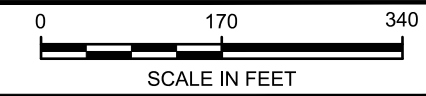
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LEGEND	
●	MONITORING WELL LOCATION
○	CLEAN OUT
⊙	PROPOSED INJECTION TEST MONITORING WELL
---	CONVEYANCE LINE
---	EXISTING PERFORATED TOE DRAIN
---	PROPOSED PERFORATED TOE DRAIN
G	GAS MAIN
SAN	SANITARY SEWER
STM	STORM SEWER
WTR	WATER MAIN
---	OVERHEAD ELECTRICAL
---	PROPOSED AREA OF HORIZONTALLY BORED PIPE INSTALLATION
■	SEEP AREA

- NOTES**
- MONITORING WELLS SHOWN ARE EXISTING. NOT ALL MONITORING WELLS ARE SHOWN DUE TO DENSITY. ALL LOCATIONS IN PROXIMITY OF PROPOSED CONVEYANCE PIPE HAVE BEEN DISPLAYED.
  - GROUND SURFACE CONTOURS ARE APPROXIMATE. ELEVATIONS SHOULD BE FIELD VERIFIED.
  - HIGHLIGHTED WELLS ARE PART OF THE PROPOSED MONITORING NETWORK.

DRAFT



THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING.

USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

Project Mgr. (MGR)  
 Designed by (DSN)  
 Drawn by TRY  
 Checked by (CHK)

**ARCADIS**

ARCADIS OF MICHIGAN, LLC.

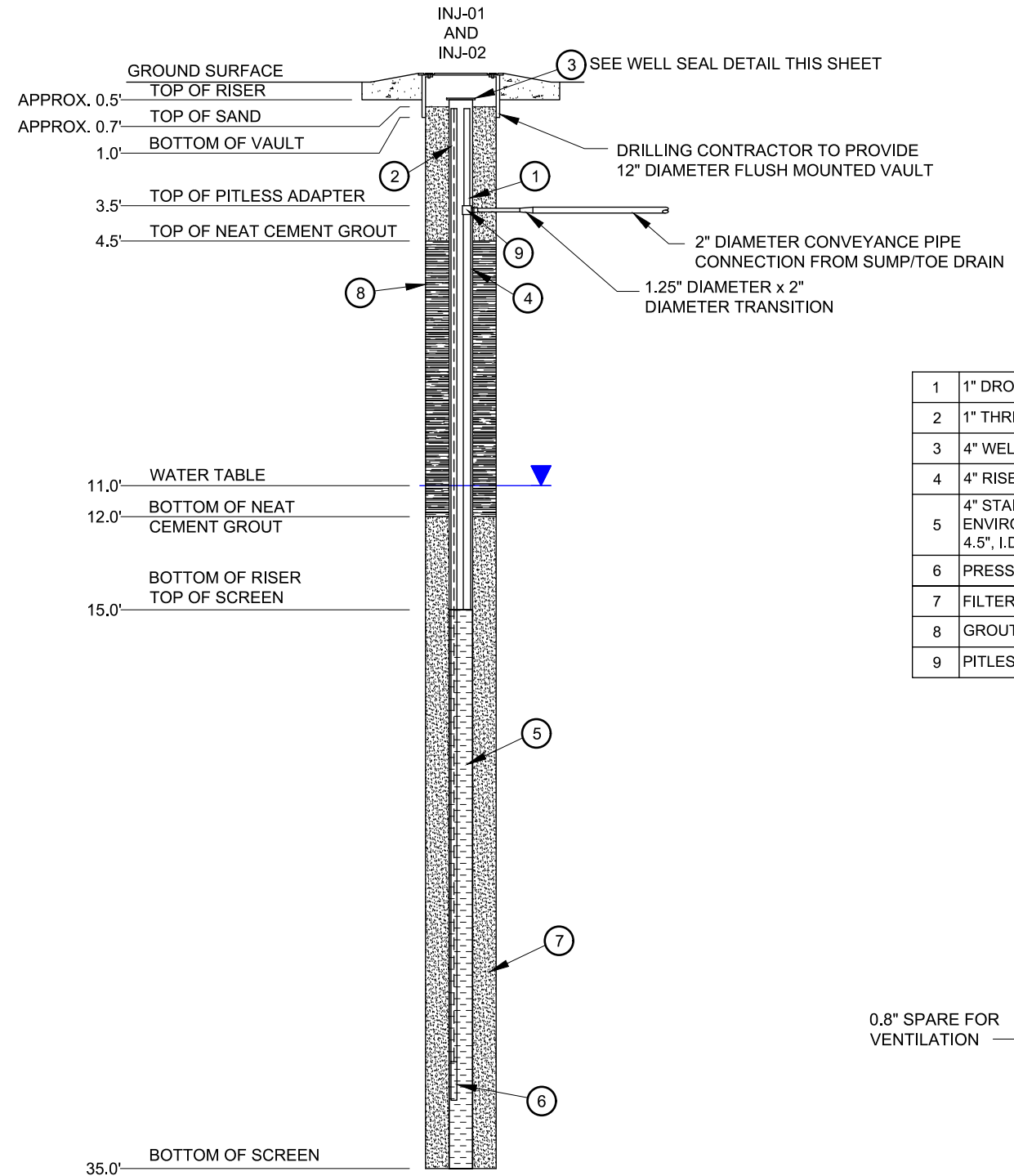
**RACER TRUST  
PONTIAC NORTH CAMPUS**

**SITE LAYOUT**

GENERAL

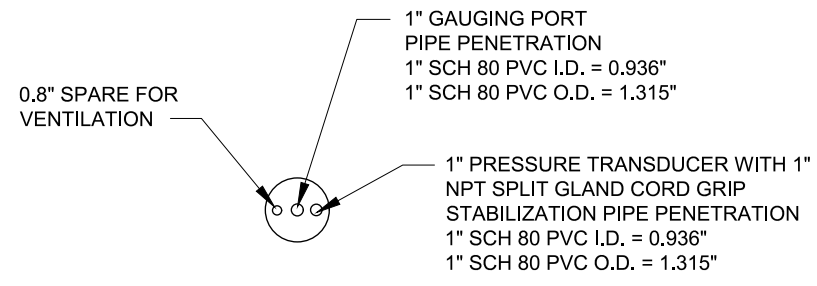
Professional Engineer's (PE'S FULL NAME)		
P.E.'s Number (NUM)	State MI	Date Signed
ARCADIS Project No. B0064607.2017.00007		
Date SEPTEMBER 2017		
ARCADIS ARCADIS OF MICHIGAN, LLC. 300 S. WASHINGTON SQUARE, STE 315 LANSING, MICHIGAN 48933		
<b>C-1</b>		

CITY: DIV/GRUOP: DB: LD: PIC: PM: TM: LVR:ON=OFF=REF- D:\GIS\Project Files\MotorsLiqudationCompany\PontiacNorthCampus\CAD\_Data\StormDesign\PNC\_01\_SiteLayout\_REV20171013.dwg LAYOUT: M-4 SAVED: 11/3/2017 2:44 PM ACADVER: 20.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: ARCADIS NOMICTB PLOTTED: 11/3/2017 2:45 PM BY: YARBROUGH, TOBI



**KEY**

1	1" DROP PIPE, SCH 80 PVC ABOVE PITLESS ADAPTER, 1.25" BELOW
2	1" THREADED TRANSDUCER STABILIZATION PIPE, SCH 80 PVC
3	4" WELL SEAL
4	4" RISER, SCH 40 PVC
5	4" STAINLESS STEEL SCREEN, JOHNSON SCREEN WATER WELL & ENVIRONMENTAL SCREENS: 90 WIR CONSTRUCTION 10 SLOT 316, SIZE 4P,O.D. 4.5", I.D. 4.0", WITH SCHEDULE FITTINGS
6	PRESSURE TRANSDUCER AND CABLE
7	FILTER PACK MATERIAL: GLOBAL NO.5 AND NO. 6 FILTER SAND
8	GROUT MATERIAL: NEAT CEMENT (PORTLAND CEMENT & WATER) GROUT
9	PITLESS ADAPTOR, 1.25: FOR 4" CASING



**INJECTION WELL DETAIL**  
NOT TO SCALE

**WELL SEAL DETAIL**  
NOT TO SCALE

DRAFT

<p style="font-size: 8px;">THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING:</p> <div style="border: 1px solid black; width: 50px; height: 10px; margin: 5px 0;"></div>	<p style="font-size: 8px;">USE TO VERIFY FIGURE REPRODUCTION SCALE</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">No.</th> <th style="width: 10%;">Date</th> <th style="width: 50%;">Revisions</th> <th style="width: 10%;">By</th> <th style="width: 10%;">Ckd</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	No.	Date	Revisions	By	Ckd										
No.	Date	Revisions	By	Ckd													

Project Mgr. (MGR)  
 Designed by (DSN)  
 Drawn by TRY  
 Checked by (CHK)

ARCADIS OF MICHIGAN, LLC.

INJECTION WELL DETAILS AND SCHEDULE

RACER TRUST  
PONTIAC NORTH CAMPUS

GENERAL

Professional Engineer's (PE'S FULL NAME)		
P.E.'s Number (NUM)	State MI	Date Signed
ARCADIS Project No. B0064607.2017.00007 Date SEPTEMBER 2017 ARCADIS OF MICHIGAN, LLC. 300 S. WASHINGTON SQUARE, STE 315 LANSING, MICHIGAN 48933		
M-4		

Novi, Michigan 48377

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