

Revitalizing Auto Communities Environmental
Response Trust (RACER)

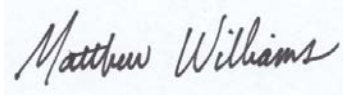
MONTCALM SEEP INTERIM MEASURE WORK PLAN

Pontiac North Campus Site

Revised April 2018



**MONTCALM SEEP
INTERIM MEASURE
WORK PLAN
(REVISED 2018-APRIL)**



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CONTENTS

1	Introduction and Objectives	2-5
2	Site Description and HisTory	2-5
2.1	System Overview.....	2-6
2.2	Focused Conceptual Site Model	2-7
2.2.1	General Geology / Hydrogeology.....	2-7
2.2.2	Area-Specific Geology	2-8
2.2.3	Area-Specific Hydrogeology	2-8
2.2.4	Area-Specific Contaminant Concentrations and Distribution.....	2-8
2.3	Permitting/Notifications.....	2-11
3	Scope of work.....	3-12
3.1	Injection Testing	3-12
3.2	Toe Drain Restoration/Alterations	3-13
3.3	Sump Installation.....	3-14
3.4	Conveyance Pipe Installation	3-14
3.5	Injection Well Installation.....	3-15
3.6	Completion Reporting.....	3-15
3.7	Operation, Maintenance and Monitoring	3-15
3.7.1	Flow.....	3-16
3.7.2	Pump Operation Frequency.....	3-16
3.7.3	Pressure Gauge, Water Level Transducers and Transmitters	3-16
3.7.4	Toe Drain Sump Operation	3-16
3.7.5	Monitoring Well Network	3-17
3.7.6	Groundwater Level Monitoring.....	3-17
3.7.7	Groundwater Sampling and Analysis.....	3-17
3.7.8	Injection Well Redevelopment / Sequestrant Usage	3-18
3.8	Contingency Planning	3-18
3.9	Schedule.....	3-19
4	References	4-20

TABLES

Table 1. Seep Area Monitoring Well Chemical Concentrations

Table 2. Soil Laboratory Analytical Results (INJ-01-17)

Table 3. Groundwater Laboratory Analytical Results (INJ-01-17, MW-03-17, and MW-04-17)

Table 4. Proposed Monitoring Well Network

FIGURES

Figure 1. Site Location

Figure 2. Site Layout

Figure 3. Cross Section A-A'

ATTACHMENTS

Attachment 1. Boring Logs (INJ-01-17, MW-03-17, MW-04-17)

1 INTRODUCTION AND OBJECTIVES

This revised *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. This Work Plan has been updated to reflect the results of injection pilot testing conducted in December 2017 and reported in the Montcalm Seep Injection Test Summary and Interim Measure Work Plan Implementation report (Arcadis, January 2018) (Injection Test Summary Report). This Work Plan has also been revised to address comments provided by Booz Allen Hamilton (Booz Allen) on behalf of USEPA and the Michigan Department of Environmental Quality upon review of the original Work Plan and Injection Test Summary Report.

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 HISTORY

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 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.

Prior to 1980, 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, the post-bankruptcy General Motors LLC (GM LLC) discontinued use of the stormwater detention facility along Montcalm St. and diverted all stormwater from GMC LLC 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 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.

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. To support the discussion below, a hydrogeologic cross-section (**Figure 3**) was developed showing surficial and subsurface transitions extending from the injection area down-gradient to the Seep Area.

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 for 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 silts and clays with lenses of fine to coarse sands. In general, these deposits are described as brown to gray and are usually water-bearing. Underlying and sometimes interbedded with 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).

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., with the exception of a small localized area around SB-MD-01 where surface slopes back to the north/northeast towards SB-44-14. 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 below ground surface (bgs). 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. Lithology observed in October 2017 during installation of the first injection well (INJ-01-17) and two monitoring wells (MW-03-17 and MW-04-17) and documented on well construction logs included in Attachment 1 of this work plan and the January 2018 Injection Test Summary Report also indicated varying thicknesses of topsoil, sand and fill down to approximately 3 feet to 10 feet bgs, underlain by intermittent pockets of clay, silt and sand down to 35 feet bgs.

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 955 feet above mean sea level (amsl) at the injection location and 942 feet amsl near the toe drain. Groundwater was encountered at depths of approximately 10 feet bgs (955 feet amsl) in wells associated with INJ-01-17, MW-03-17 and MW-04-17 during initial well sampling activities. The horizontal component of the groundwater flow is 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 at a location on the Site approximately 1450 feet north-north-east and upgradient of the toe drain. The proposed re-injection location has subsurface

groundwater characteristics and impacts similar to those identified throughout this portion of the Site (i.e., the western portion of the USPS parcel and the adjacent parcel to the north), and is well within 100 feet of the estimated extents of subsurface impacted groundwater controlled within the Site boundaries. 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 1**, 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. As summarized in the January 2018 Injection Test Summary Report, both soil and groundwater were sampled from the screened interval at the location of injection well INJ-01-17 during well installation and testing activities, and groundwater was also sampled from monitoring wells MW-03-17 and MW-04-17. Soil samples (**Table 2**) were analyzed for volatile organic compounds (VOCs), SVOCs, polychlorinated biphenyls (PCBs), and total metals, while groundwater samples (**Table 3**) were analyzed for VOCs, SVOCs and total metals. The results of October 2017 soil analysis from two depths within the screened interval at INJ-01-17 had GSI criteria exceedances for chromium, cobalt and selenium, and also non-residential drinking water exceedances of cobalt and manganese. Groundwater from MW-04-17 had non-residential drinking water criteria exceedances for lead and manganese, while both MW-03-17 and INJ-01-17 had non-residential drinking water exceedances for manganese only. Of note, concentrations of cobalt, selenium and manganese detected in soil at INJ-01-17 were within the typical range of statewide data reported in the Michigan Background Soil Survey. Furthermore, the GSI exposure pathway in the vicinity of the injection area is incomplete, and institutional controls have been implemented to restrict the use of groundwater at the site.

Concentrations of contaminants within the proposed injection area are lower than what is encountered within groundwater located further downgradient 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), and are also depicted on the hydrogeologic cross-section (**Figure 3**). 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 (**Figure 2**). These wells have historically had low-level detections of volatile organic compounds (VOCs), SVOCs, polychlorinated biphenyls (PCBs) and inorganics above MDEQ Part 201 drinking water and GSI criteria as well. Details on characterization of groundwater across this area can be referenced from the RCRA Facilities Investigation (Arcadis, 2012). Contaminant concentrations across this area 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 1; 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. While low concentrations of PCBs have previously been detected at estimated levels below laboratory method detection limits in isolated groundwater monitoring events at TW-MD-01 and TW-MD-06, the results of most recent groundwater monitoring events at these locations and other monitoring wells in the area have not reported detections.

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 CaCO₃) 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 CO₂ 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. Reinjection 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.

In summary, reinjection of the seep water has been evaluated based on contaminant concentrations and other water quality characteristics, criteria exceedances and exposure pathways, and institutional controls implemented at the Site and surrounding area. Based on the modeling and evaluation discussed, there are no anticipated negative effects to groundwater quality associated with reinjection 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) under the following basis:

- A qualification of the rule is that 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. Hydrogeologic Site data collected from years of subsurface investigations and the hydrogeologic cross-section included in Figure 3 demonstrate that the area between the injection and seep areas are hydrogeologically connected.
- An additional qualification of the rule requires that any additive used in the treatment process that is not part of the contaminant plume meets the requirements of Michigan Rule R323.2222. While the use of additives (sequestrants) in the injection water is not initially planned, it is a potential contingency action as described in Section 3.8 below, whereas any such use would only be implemented for MDEQ approved products.
- Site hydrogeologic characteristics and groundwater quality data and modeling results suggest that the seep water re-injection system qualifies for the exemption under R323.2210(u)(iii). This paragraph relates to design and operation of a treatment system so that contaminated water will eventually meet the appropriate land use-based cleanup criteria under Michigan Part 201 regulations. Of note, the entire Site is regulated under a common corrective action whereas groundwater characteristics in both areas exhibit similar characteristics with respect to exceedances of limited contaminants of Michigan cleanup criteria for drinking water and the groundwater surface water interface (GSI). For drinking water, both Site and area institutional controls are implemented and will serve as a final remedy. For GSI, the proposed remedy mitigates a potential exposure pathway by re-injecting the seep water from a location where it is resurfacing in the immediate vicinity of storm drains to an upgradient location where the pathway is incomplete. Minor detections and variance in concentrations of select contaminants in groundwater may vary between the two areas as indicated from extensive groundwater investigation activities previously conducted at the Site. However, analytical data and modeling results do not indicate that the proposed re-injection system will result in degradation of groundwater water resulting in conditions which trigger regulatory exceedances which are not already controlled or would otherwise be present with an incomplete pathway.

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 and within 10 days prior to the commencement of field work.

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

As previously included, injection testing was completed to determine hydraulic design parameters for the full-scale injection approach. One four-inch diameter injection well (INJ-01-17) was installed and initially developed in October 2017, and a series of slug tests and injection step testing was completed in December 2017. Two monitoring wells (MW-03-17 and MW-04-17) were also installed downgradient of the injection well in October 2017 to measure aquifer response during the injection step tests. The monitoring wells were installed within the anticipated radius of injection to enable assessment of the injection well effects on groundwater levels throughout the testing area. More details on the injection

testing are presented in the January 2018 Injection Test Summary Report. Well construction logs for injection well INJ-01-17 and monitoring wells MW-03-17 and MW-04-17 are included in Attachment 1 to the January 2018 Injection Test Summary Report. The wells were also sampled prior to injection testing and analysis was conducted to validate baseline water quality conditions.

Slug testing at injection well INJ-01-17 and monitoring wells MW-03-17 and MW-04-17 were conducted to determine hydraulic conductivity in the target injection area and step testing was performed to determine hydraulic influence and injection capacity at various injection rates. Step tests were initiated to start at a flowrate of 0.5 gallons per minute (GPM), followed by steps of increasing flowrate. Additional steps included testing at 1.0, 2.5, 4.0, and 4.5 GPM. During each step, localized mounding was measured and groundwater chemistry parameters were recorded including temperature, dissolved oxygen, pH, conductivity, and oxygen reducing potential at monitoring wells MW-03-17 and MW-04-17. One final test was conducted at a flowrate of approximately 6.1 GPM with a sealed wellhead connection which resulted in localized mounding to ground surface from the soils within the borehole space at the injection well location. Over the course of step testing, approximately 2,100 gallons of water was injected into the ground.

Due to the step testing nature of the test at flowrates lower than the full-scale flow rate and the time available for the test, a smaller overall injection volume during the pilot study (2,100 gallons) was achieved than the target volume (5,000 – 10,000 gallons) specified in the original IMWP. Furthermore, testing conditions during pilot testing may not represent longer term worst-case aquifer storage conditions (i.e. a large storm event and waterlogged soils). However, within the time constraints of the test, mounding effects at the injection well and surrounding monitoring wells were one of the best available indicators demonstrating sustainable flowrates supporting that the injection design should provide effective mitigation of the seep along Montcalm Avenue. Test observations demonstrated that a flowrate of 4.0 to 4.5 gpm was approaching asymptotic mounding conditions with adequate freeboard at the injection well.

During long term operation, transducers supplemented with remote telemetry recommended for installation at the injection wells interlocked into the system controls will be sufficient to continuously monitor the injection system remotely for potential resurfacing of injection water / groundwater at ground surface in the event that injection rates exceed injection capacity. Furthermore, contingency measures described in Section 3.8 address alternatives if sustained injection rates cannot be regularly achieved over time.

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. As a result of the observations, trees and brush were cleared down to ground level in the vicinity of the toe drain later in 2017. 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. Rehabilitation of the toe drain will be performed in a manner to facilitate future maintenance activities described in Section 3.7.4.

The toe drain currently connects to a pump station which was abandoned in place via filling with concrete in 2012 when the toe drain was bulk headed to terminate direct discharge to the sewer system through the storm water treatment facility. 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 prepackaged sump (approximately 36-48 inches in diameter) with duplex high head submersible sump pumps will be installed approximately 100 feet west of the abandoned pump station. The fiberglass sump basin will be approximately 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 and be retrofitted with cleanouts on each side prior to entry. The sump will have a capacity of approximately 70-100 gallons up to the anticipated pump actuation point. As previously described, remote telemetry will be utilized to cease operation of the pumps in the event of high water levels at the injection wells. 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. The sump will also be designed with an initially sealed outlet to accommodate future connection to a sanitary or storm sewer system to the extent justified, necessary and approved.

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, in combination with horizontal directional drilling under an area of pavement used frequently in association with USPS transportation activities, will be utilized to install conveyance piping, as shown on **Figure 2**. In general, the depth of conveyance piping from the sump to the injection area will be targeted below the frost line in the range of 3.5-4 feet bgs, but in consideration of structural integrity will be slightly deeper at approximately 5 feet bgs below the pavement used in association with USPS transportation activities. 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

A total of two injection wells, INJ-01-17 and INJ-02-17 are proposed to be utilized approximately 1,600 feet upgradient from the seep area **Figure 2**. One injection well (INJ-01-17) was installed in October 2017 to complete an injection test and validate design assumptions regarding the injectability to the subsurface, as previously described. The well construction log for INJ-01-17 was provided in Attachment 1 of the January 2018 Injection Test Summary Report. The second injection well is proposed to be completed as part of the scope of work to complete installation of the remaining part of the system. Injection well INJ-01-17 is four inches in diameter with a PVC riser and 20-foot stainless steel v-wire wrapped screen. As indicated in the January 2018 Injection Test Summary Report, based on the results of pilot testing injection well INJ-02-17 is proposed to be six inches in diameter also with a PVC riser and 20-foot stainless steel screen. For injection plan implementation, each well is proposed to 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 piping configuration will also consist of shut-off valves on the isolated piping extensions to each injection well to allow for adjustments in flow allocation between the wells, or otherwise for preventing flow to either of the two wells as necessary based on water level conditions or to facilitate for maintenance and injection well redevelopment activities. The intent of the drop pipe will be to minimize oxygenating the water as it is injected into the subsurface. Transducers will be installed in each injection well. Injection wells will be finished with flush mounted well vaults and developed using air lifting 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, Maintenance and Monitoring

Upon startup, on-site observations and inspection of key system components will be conducted every day or every other day for one week, and then every week for one month, to ensure correct and consistent operation. As previously described, remote telemetry at the injection wells and pump station will provide for continuous monitoring of injection well water levels and pump system operation. Key system components will also be inspected after experiencing the first few significant rain and snow precipitation events over the first year. After the first month, frequencies of operation, maintenance and on-site monitoring activities will be established for select system components as described in the paragraphs 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. After the completion of more frequent inspections over the first month and during initial significant precipitation events, the flow meter will be inspected and flow monitored at a minimum of once per month.

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. After the completion of more frequent inspections over the first month and during initial significant precipitation events, the pumps will be inspected at a minimum of once per month.

3.7.3 Pressure Gauge, Water Level Transducers and Transmitters

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. In addition, water level transducers will be installed in each injection well to measure the static water level depth below ground surface. 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. Furthermore, a transmitter with remote telemetry will be located at each injection well location. In the event that the water level rises too high at any one injection well location operation of the pump will automatically be shut down and Arcadis will receive immediate notification via the remote telemetry system. The depth below ground surface at which shutdown of the pump will be set is anticipated to be 2-3 feet bgs but will depend on water levels measured during initial monitoring events and may also be adjusted lower during winter months to prevent issues associated with freezing.

After the completion of more frequent inspections over the first month and during initial significant precipitation events, the pressure gauge, water level transducers, and transmitters will be inspected at a minimum of once per month and calibrated or replaced as required.

3.7.4 Toe Drain Sump Operation

Upon rehabilitation of the toe drain as described in Section 3.2, periodic inspections of the toe drain will be planned and conducted to ensure that there is adequate flow into the drain and sump. The initial inspection frequency will be established as quarterly, with potential adjustments made based on the results of inspections or other events (such as construction activities or significant precipitation events) which may impact functioning of the drain. In addition, based on the results of periodic inspections, cleanouts of the toe drain and other required maintenance activities such as the removal of vegetation (roots, trees) will be conducted as necessary to mitigate and prevent obstructions.

3.7.5 Monitoring Well Network

Based on the location of the seep and injection areas, as well as details provided in the hydrogeologic cross-section (**Figure 3**) and the results of modelling, a monitoring well network has been established to evaluate water levels and potential water quality impacts due to operation of seep injection system. The network includes wells located near the seep, in the vicinity of the injection wells, and at select intermediate well locations. **Table 4** presents the proposed well network, monitoring parameters which are further described below, and the purpose for each well in the network. With the installation of injection well INJ-17-01 and monitoring wells MW-03-17 and MW-04-17 in October 2017, the only monitoring well not present as of the date of this revised work plan is injection well INJ-02-17.

3.7.6 Groundwater Level Monitoring

Groundwater levels will be monitored during select inspection events as defined in **Table 4** to allow for the development of groundwater contours and evaluation of changes in groundwater flow due to system operation. As previously described, injection wells will be installed with transducers to continuously monitor groundwater elevation at the injection wells. Transducers will be interlocked with the system control panel to facilitate immediate shut down of the pump in the event water levels rise too close to ground surface at the injection wells.

3.7.7 Groundwater Sampling and Analysis

Groundwater sampling events and laboratory analysis will be conducted for target contaminants of potential concern as well for key water quality parameters at frequencies defined in **Table 4** to determine in combination with flow contours if the seep control operation is functioning properly without causing undesirable contamination mobility.

Low flow sampling (from select monitoring wells) as well as a grab sample collected from the sump will be conducted for VOCs, metals and PCBs as defined in **Table 4**. Of note, while SVOCs were sometimes analysed during select previous groundwater sampling events at pre-existing network monitoring wells and were also analysed during the December 2017 sampling at injection well INJ-01-17 and monitoring wells MW-03-17 and MW-04-17, SVOCs are not included as a target contaminant for future monitoring based on the most recent analytical results as well as a 2009 USEPA determination which waived future monitoring for SVOCs during annual groundwater monitoring events at the Site.

In addition, grab samples for select water quality parameters 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 prior to system startup (baseline) and once per month for the first three months and then semi-annually thereafter.

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. Injection system maintenance activities to address these conditions are described below in Section 3.7.8.

3.7.8 Injection Well Redevelopment / Sequestrant Usage

Based on well development activities conducted for injection well INJ-01-17 in October 2017, and also based on the results of water quality analysis and slug / injection testing reported in the January 2018 Injection Test Summary Report, injection wells will initially be redeveloped once every two months. The proposed frequency will be adjusted based on the results of monitoring system performance. To the extent that groundwater monitoring results and injection well performance indicate that additional measures are necessary to prevent plugging of the formation around the injection well screens, water treatment additive vendors have been contacted to discuss potential sequestrants that can be used to mitigate fouling potential. The specific sequestrant(s) to be used would depend on conditions and vendor recommendation and will also be limited to use of MDEQ-preapproved products or otherwise require review and approval by MDEQ based on Part 31 R323 Rules.

3.8 Contingency Planning

The following table lists planned contingencies to take for select situations which may be experienced based on the results of inspections, maintenance, and system monitoring:

CIRCUMSTANCE	ACTIONS
Injection System Plugging	<ol style="list-style-type: none"> 1. Aggressive injection well redevelopment (specific frequency determined based on performance and monitoring results) 2. Specification and use of sequestrants. The specific sequestrant(s) to be used would depend on conditions and vendor recommendation, and also be limited to use of MDEQ-preapproved products or otherwise require review and approval by MDEQ. 3. Reduce flow into injection wells and evaluate installation of an additional injection well or wells resulting in lower flow across each well in the network. 4. Shut down the injection system and evaluate other alternatives for managing the seep.
Injection Well Groundwater Resurfacing due to Seep Flow Surges	<ol style="list-style-type: none"> 1. In the event of seep flow surges which indicate that the achievable injection capacity at the two injection wells may not accommodate flow surges during periods of heavy precipitation or melting, evaluate installation of an additional injection well or wells resulting in lower flow across each well in the network. 2. Shut down the injection system and evaluate other alternatives for managing the seep.
Material Water Quality Degradation	Material degradation is qualified to the extent that the results of groundwater monitoring indicate that groundwater quality impairment or migration occurs in a manner that impacts pre-existing conditions and restrictions such that additional controls or restrictions beyond those already existing would be required.

	<ol style="list-style-type: none"> 1. Evaluate alternative flow distribution or rates into the existing injection wells, and/or installation of an additional injection well or wells in a manner which mitigates the conditions. 2. Shut down the injection system and evaluate other alternatives for managing the seep.
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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, weather permitting. Design completion and contractor procurement is anticipated to be conducted in the Spring of 2018. Field implementation (system installation) will be initiated in the summer of 2018. A draft schedule for implementation is included below:

Weeks from USEPA and MDEQ approval	Item
4 weeks	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 service installation. Electrical infrastructure (transducers, gauges, telemetry) installation.
22 weeks	System startup

4 REFERENCES

Arcadis, Inc. 2018. Montcalm Seep Injection Test Summary and Interim Measure Work Plan Implementation Report, RACER Trust, Pontiac Michigan, January 31, 2018.

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
Seep Area Monitoring Well Chemical Concentrations
RACER Trust
Pontiac North Campus
Pontiac, MI

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	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	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
PCBs																			
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]	0.20 U	NA	0.20 U [0.2 U]	0.20 U [0.2 U]	0.20 U	0.20 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]	0.20 U	NA	0.20 U [0.2 U]	0.20 U [0.2 U]	0.20 U	0.20 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]	0.40 U	NA	0.40 U [0.4 U]	0.40 U [0.4 U]	0.40 U	0.40 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]	0.20 U	NA	0.20 U [0.2 U]	0.20 U [0.2 U]	0.20 U	0.20 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]	0.20 U	NA	0.20 U [0.2 U]	0.20 U [0.2 U]	0.20 U	0.20 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]	0.20 U	NA	0.20 U [0.2 U]	0.20 U [0.2 U]	0.20 U	0.20 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]	0.20 U	NA	0.20 U [0.2 U]	0.20 U [0.2 U]	0.20 U	0.20 U
PCBs-Filtered																			
Aroclor-1016 (PCB-1016) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	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	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	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	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	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	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	NA	NA	NA	NA	NA	NA
Volatile Organics																			
1,2,3-Trimethylbenzene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	260	750	19	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	2.6	11	2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	7.3	21	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	95	270	11,000	ug/L	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA
Acetone	730	2,100	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]	10 U	NA	10 U [3.1 J]	1.3 J [1.7 J]	10 U	10 U
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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U
Bromobenzene	18	50	--	ug/L	NA	NA	NA	NA	NA	NA	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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U
Bromomethane	10	29	35	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]	1.0 UJ	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 UJ	1.0 U
2-Butanone	13,000	38,000	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]	10 U	NA	10 U [10 U]	10 U [10 U]	10 U	10 U
n-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	800	2,300	--	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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U
Carbon Tetrachloride	5	5	45	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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U
CFC-11	2,600	7,300	--	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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U
CFC-12	1,700	4,800	--	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]	2.0 U	NA	2.0 U [2 U]	2.0 U [2 U]	2.0 U	2.0 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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U
Chlorobromomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U
Chloroethane	430	1,700	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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U
Chloromethane	260	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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U
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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U
Cymene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	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]	2.0 U	NA	2.0 U [2 U]	2.0 U [2 U]	2.0 U	2.0 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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U
Dibromomethane	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U
1,3-Dichlorobenzene	6.6	19	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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U
1,1-Dichloroethane	880	2,500	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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U
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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U
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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U
Diethyl Ether	10	10	--	ug/L	NA	NA													

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	MWW1-02	MWW1-02	MWW1-02	MWW1-02	MWW1-02	MWW1-02	MWW1-02	MWW1-02	MWW1-02	MWW1-02	MWW1-02	MWW1-02	MWW1-02	MWW1-02	MWW1-02	MWW1-02
					01/17/02	01/17/02	11/08/02	11/08/02	05/19/03	12/10/03	05/03/04	05/17/04	10/26/04	05/11/05	05/11/05	11/02/05	05/17/06	11/13/06	05/03/07	
					MWW1-02-GW-011702	MWW1-02-GW-N	MWW102GW	MWW102GW110802	MWW102W(1-11)	MWW102GW(1-11)	MWW102GW (050304)	MWW102GW051704	MWW1-02-GW-102604	MWW1-02-GW-051105	MWW1-02-GW-051105R2	MWW1-02-GW-110205FD	MWW1-02-GW-051706	MWW1-02-WG-111306	MWW1-02-GW-05-03-07	
Methylcyclohexane	--	--	--	ug/L	NA	NA	NA	1.0 U	1.0 UJ	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	
4-Methyl-2-pentanone	1,800	5,200	--	ug/L	NA	0.23 U	NA	10 U	10 UJ	10 U [10 U]	10 U [10 U]	NA	10 U [10 U]	10 U	NA	10 U [10 U]	10 U [10 U]	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	
Naphthalene	520	1,500	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
n-Propylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	
1,1,1,2-Tetrachloroethane	77	320	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,1,2,2-Tetrachloroethane	8.5	35	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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	
Toluene	790	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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	
1,2,3-Trichlorobenzene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 UJ	
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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	
1,2,3-Trichloropropane	42	120	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,1,2-trichloro-1,2,2-trifluoroethane	170,000	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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	
1,2,4-Trimethylbenzene	63	63	17	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,3,5-Trimethylbenzene	72	72	45	ug/L	NA	NA	NA	NA	NA	NA	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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U	
o-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	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]	2.0 U	NA	2.0 U [2 U]	2.0 U [2 U]	2.0 U	2.0 U	
Semivolatile Organics																				
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]	10 U	NA	10 U [10 U]	10 U [10 U]	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	
2,4,5-Trichlorophenol	730	2,100	--	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	
2,4,6-Trichlorophenol	120	470	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	
2,4-Dichlorophenol	73	210	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]	10 U	NA	10 U [10 U]	10 U [10 U]	10 U	10 U	
2,4-Dimethylphenol	370	1,000	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	
2,4-Dinitrophenol	--	--	--	ug/L	NA	3.0 UJ	NA	20 U	20 UJ	20 U [20 U]	20 U [20 U]	NA	20 U [20 U]	20 U	NA	20 U [20 U]	20 U [20 U]	20 U	20 U	
2,4-Dinitrotoluene	7.7	32	--	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	
2-Chloronaphthalene	1,800	5,200	--	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	
2-Chlorophenol	45	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	
2-Methylnaphthalene	260	750	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	
2-Methylphenol	--	--	--	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 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]	20 U	NA	20 U [20 U]	20 U [20 U]	20 U	20 U	
2-Nitrophenol	20	58	--	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	
3,3'-Dichlorobenzidine	1.1	4.3	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]	20 U	NA	20 U [20 U]	20 U [20 U]	20 U	20 U	
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]	20 U	NA	20 U [20 U]	20 U [20 U]	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]	20 U	NA	20 U [20 U]	20 U [20 U]	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	
4-Chloro-3-Methylphenol	150	420	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	
4-Chloroaniline	--	--	--	ug/L	NA	0.61 U	NA	10 U	10 UJ	10 U [10 U]	10 U [10 U]	NA	10 U [10 U]	10 U	NA	10 U [10 U]	10 U [10 U]	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 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]	20 U	NA	20 U [20 U]	20 U [20 U]	20 U	20 U	
4-Nitrophenol	--	--	--	ug/L	NA	1.9 U	NA	20 U	20 UJ	20 U [20 U]	20 U [20 U]	NA	20 U [20 U]	20 U	NA	20 U [20 U]	20 U [20 U]	20 U	20 U	
Acenaphthene	1,300	3,800	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	
Acenaphthylene	52	150	--	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	
Acetophenone	1,500	4,400	--	ug/L	NA	2.6 U	NA	10 U	10 UJ	10 U [10 U]	10 U [10 U]	NA	10 U [10 U]	10 U	NA	10 U [10 U]	10 U [10 U]	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 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]	10 U	NA	10 U [10 U]	10 U [10 U]	10 U	10 U	
Benzo(a)anthracene	2.1	8.5	--	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	
Benzo(a)pyrene	5	5	--	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 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 U [5 U]	NA	5.0 U [5 U]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	
bis(2-Chloroethyl)ether	2	8.3	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	
bis(2-Ethylhexyl)phthalate	6	6	25	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	
Butylbenzylphthalate	1,200	2,700	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U	
Caprolactam	5,800	17,000	--	ug/L	NA	2.5 UJ	NA	10 U	10 UJ	10 U [10 U]	10 U [10 U]	NA	10 U [10 U]	10 U	NA	10 U [10 U]	10 U [10 U]	10 U	10 U	
Carbazole	85	350	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]	10 U	NA	10 U [10 U]	10 U [10 U]	10 U	10 U	
Chrysene	1.6	1.6	--	ug/L	NA	0.75 U	NA	5.0 U	5.0 UJ											

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	MWW1-02 01/17/02	MWW1-02 01/17/02	MWW1-02 11/08/02	MWW1-02 11/08/02	MWW1-02 05/19/03	MWW1-02 12/10/03	MWW1-02 05/03/04	MWW1-02 05/17/04	MWW1-02 10/26/04	MWW1-02 05/11/05	MWW1-02 05/11/05	MWW1-02 11/02/05	MWW1-02 05/17/06	MWW1-02 11/13/06	MWW1-02 05/03/07
					MWW1-02-GW-011702	MWW1-02-GW-N	MWW102GW	MWW102GW110802	MWW102W(1-11)	MWW102GW(1-11)	MWW102GW (050304)	MWW102GW051704	MWW1-02-GW-102604	MWW1-02-GW-051105	MWW1-02-GW-051105R2	MWW1-02-GW-110205FD	MWW1-02-GW-051706	MWW1-02-WG-111306	MWW1-02-GW-05-03-07
Diethylphthalate	5,500	16,000	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U
Dimethylphthalate	73,000	210,000	--	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U
Di-n-Butylphthalate	880	2,500	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U
Di-n-Octylphthalate	130	380	--	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U
Fluoranthene	210	210	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U
Fluorene	880	2,000	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 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]	5.0 UJ	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U
Hexachloroethane	7.3	21	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U
Isophorone	770	3,100	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U
Nitrobenzene	3.4	9.6	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U
N-Nitrosodiphenylamine	270	1,100	--	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U
Phenanthrene	52	150	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U
Phenol	4,400	13,000	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U
Hexachloro-1,3-Butadiene	15	42	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U
Naphthalene	520	1,500	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U
Inorganics																			
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]	25.0 U	NA	25.0 U [25 U]	4.5 J [25 U]	25.0 U	25.0 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]	10.0 U	NA	10.0 U [10 U]	1.0 J [0.97 J]	2.0 U	0.51 J
Barium	2,000	2,000	--	ug/L	NA	155	NA	137	178 J	200 [186]	216 [216]	212	171 [163]	147	NA	147 [147]	116 [123]	126	90.7
Beryllium	4	4	--	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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U
Cadmium	5	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U
Calcium	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	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]	10.0 U	NA	10.0 U [5.8 J]	10.0 U [10 U]	10.0 U	10.0 U
Cobalt	40	100	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]	20.0 U	NA	20.0 U [20 U]	20.0 U [20 U]	20.0 U	20.0 U
Copper	1,000	1,000	--	ug/L	NA	4.2 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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 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]	10 U	NA	10 U [10 U]	10 U [10 U]	7.3 J	10 U
Iron	300	300	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	4	4	--	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]	3.0 U	NA	3.0 U [3 U]	3.0 U [3 U]	3.0 U	3.0 U
Magnesium	400,000	1,100,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	50	--	ug/L	NA	539 J	NA	448 J	464 J	532 [486]	543 [548]	638	410 [419]	447	NA	409 J [414 J]	376 J [400 J]	421 J	262
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]	0.20 U	NA	0.20 U [0.2 U]	0.20 U [0.2 U]	0.20 U	0.20 U
Nickel	100	100	--	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]	20.0 U	NA	20.0 U [4.3 J]	20.0 U [20 U]	32.4	20.0 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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 U
Silver	34	98	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]	5.0 U	NA	5.0 U [5 U]	5.0 U [5 U]	5.0 U	5.0 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]	1.0 U	NA	1.0 U [1 U]	1.0 U [1 U]	1.0 U	1.0 U
Vanadium	4.5	62	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]	10.0 U	NA	10.0 U [10 U]	10.0 U [10 U]	10.0 U	10.0 U
Zinc	2,400	5,000	--	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]	20.0 U	NA	20.0 U [20 U]	20.0 U [20 U]	20.0 U	20.0 U
Inorganics-Filtered																			
Antimony (dissolved)	6	6	130	ug/L	NA	2.2 U	NA	NA	NA	NA	NA	25.0 U	NA	NA	NA	NA	NA	NA	NA
Arsenic (dissolved)	10	10	10	ug/L	NA	12.0	NA	NA	NA	NA	NA	10.0 U	NA	NA	NA	NA	NA	NA	NA
Barium (dissolved)	2,000	2,000	--	ug/L	NA	163	NA	NA	NA	NA	NA	209	NA	NA	NA	NA	NA	NA	NA
Beryllium (dissolved)	4	4	--	ug/L	NA	0.54 U	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
Cadmium (dissolved)	5	5	--	ug/L	NA	0.28 U	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA
Chromium (dissolved)	100	100	11	ug/L	NA	1.4 U	NA	NA	NA	NA	NA	10.0 U	NA	NA	NA	NA	NA	NA	NA
Cobalt (dissolved)	40	100	100	ug/L	NA	1.3 U	NA	NA	NA	NA	NA	20.0 U	NA	NA	NA	NA	NA	NA	NA
Copper (dissolved)	1,000	1,000	--	ug/L	NA	4.2 U	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA
Iron (dissolved)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (dissolved)	4	4	--	ug/L	NA	2.5 U	NA	NA	NA	NA	NA	3.0 U	NA	NA	NA	NA	NA	NA	NA
Manganese (dissolved)	50	50	--	ug/L	NA	558 J	NA	NA	NA	NA	NA	647	NA	NA	NA	NA	NA	NA	NA
Mercury (dissolved)	--	--	0.0013	ug/L	NA	0.069 U	NA	NA	NA	NA	NA	0.20 U	NA	NA	NA	NA	NA	NA	NA
Nickel (dissolved)	100	100	--	ug/L	NA	2.2 U	NA	NA	NA	NA	NA	3.3 J	NA	NA	NA	NA	NA	NA	NA
Selenium (dissolved)	50	50	5	ug/L	NA	4.5 U	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA
Silver (dissolved)	34	98	0.2	ug/L	NA	1.5 U	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA
Thallium (dissolved)	2	2	3.7	ug/L	NA	0.018 U	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
Vanadium (dissolved)	4.5	62	27	ug/L	NA	0.82 U	NA	NA	NA	NA	NA	10.0 U	NA	NA	NA	NA	NA	NA	NA
Zinc (dissolved)	2,400	5,000	--	ug/L	NA	12.0 U	NA	NA	NA	NA	NA	20.0 U	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																			
Alkalinity, total (as CaCO3)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	--	--	--	none	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA
Total Suspended Solids	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field																			

See Notes on last page.

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	MWW1-02 01/17/02	MWW1-02 01/17/02	MWW1-02 11/08/02	MWW1-02 11/08/02	MWW1-02 05/19/03	MWW1-02 12/10/03	MWW1-02 05/03/04	MWW1-02 05/17/04	MWW1-02 10/26/04	MWW1-02 05/11/05	MWW1-02 05/11/05	MWW1-02 11/02/05	MWW1-02 05/17/06	MWW1-02 11/13/06	MWW1-02 05/03/07
					MWW1-02-GW-011702	MWW1-02-GW-N	MWW102GW	MWW102GW110802	MWW102W(1-11)	MWW102GW(1-11)	MWW102GW (050304)	MWW102GW051704	MWW1-02-GW-102604	MWW1-02-GW-051105	MWW1-02-GW-051105R2	MWW1-02-GW-110205FD	MWW1-02-GW-051706	MWW1-02-WG-111306	MWW1-02-GW-05-03-07
Conductivity, field	--	--	--	mS/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity, field	--	--	--	umhos/cm	NA	NA	NA	NA	NA	1.74	NA	2.17	NA	NA	NA	NA	NA	NA	1.47
Dissolved oxygen (DO), field	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	310
Oxidation reduction potential (ORP), field	--	--	--	millivolts	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-53.0
Temperature, ambient	--	--	--	deg f	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40
Temperature, field	--	--	--	deg c	NA	NA	NA	NA	NA	9.48	NA	20.1	NA	NA	NA	NA	NA	NA	10.21
Turbidity (field)	--	--	--	NTU	NA	NA	NA	NA	NA	3.62	NA	1.7	NA	NA	NA	NA	NA	NA	3.87
Dioxins/Furans																			
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]	NA	2.4 U	13 U [18 U]	16 U [16 U]	3.8 U	19 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]	NA	5.3 U	15 U [12 U]	18 U [28 U]	14 U	15 U
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]	NA	1.5 U	12 U [12 U]	14 U [22 U]	2.7 U	9.7 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]	NA	1.4 U	5.8 U [4.9 U]	14 U [16 U]	2.0 U	8.2 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]	NA	1.3 U	7.3 U [6.2 U]	7.1 U [6.6 U]	2.3 U	9.4 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]	NA	1.7 U	8.9 U [9.6 U]	9.4 U [8.5 U]	2.4 U	8.9 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]	NA	2.1 U	5.9 U [5.9 U]	8.3 U [8.1 U]	2.2 U	6.4 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]	NA	1.5 U	6.8 U [7.4 U]	8.6 U [7.7 U]	2.3 U	8.8 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]	NA	2.0 U	5.2 U [5.2 U]	7.7 U [7.4 U]	2.0 U	6.0 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]	NA	1.6 U	7.8 U [8.4 U]	8.3 U [7.5 U]	2.2 U	8.3 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]	NA	2.5 U	8.0 U [8 U]	8.7 U [8.4 U]	2.5 U	7.1 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]	NA	1.9 U	8.4 U [9.2 U]	17 U [16 U]	3.3 U	13 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]	NA	1.4 U	5.4 U [5.6 U]	11 U [10 U]	1.9 U	8.7 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]	NA	2.2 U	6.5 U [6.6 U]	8.4 U [8.1 U]	2.2 U	7.0 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]	NA	1.4 U	5.4 U [5.6 U]	11 U [10 U]	1.9 U	8.8 U
2,3,7,8-TCDD	30	30	10	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]	NA	0.99 U	4.3 U [4.3 U]	9.3 U [8.9 U]	1.4 U	8.1 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]	NA	1.4 U	3.7 U [3.5 U]	8.5 U [9.4 U]	1.5 U	5.1 U
Total heptachlorodibenzofuran (HpCDF)	--	--	--	pg/L	0.8 U	NA	NA	NA	NA	NA	NA	NA	1.3 U [0.64 U]	NA	1.4 U	7.3 U [6.2 U]	14 U [16 U]	2.3 U	9.4 U
Total heptachlorodibenzo-p-dioxin (HpCDD)	--	--	--	pg/L	1.2 U	NA	NA	NA	NA	NA	NA	NA	1.9 U [0.62 U]	NA	1.5 U	12 U [12 U]	14 U [22 U]	2.7 U	9.7 U
Total hexachlorodibenzofuran (HxCDF)	--	--	--	pg/L	0.6 U	NA	NA	NA	NA	NA	NA	NA	0.72 U [0.78 U]	NA	2.5 U	8.0 U [8 U]	8.7 U [8.4 U]	2.5 U	7.1 U
Total hexachlorodibenzo-p-dioxin (HxCDD)	--	--	--	pg/L	0.9 U	NA	NA	NA	NA	NA	NA	NA	1.8 U [1.9 U]	NA	1.7 U	8.9 U [9.6 U]	9.4 U [8.5 U]	2.4 U	8.9 U
Total pentachlorodibenzofuran (PeCDF)	--	--	--	pg/L	0.9 U	NA	NA	NA	NA	NA	NA	NA	2.0 U [1.9 U]	NA	1.8 U	5.4 U [5.6 U]	11 U [12 U]	1.9 U	8.8 U
Total pentachlorodibenzo-p-dioxin (PeCDD)	--	--	--	pg/L	12 J	NA	NA	NA	NA	NA	NA	NA	1.7 U [2.1 U]	NA	1.9 U	8.4 U [9.2 U]	17 U [16 U]	9.5 U	13 U
Total TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	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]	NA	1.4 U	3.7 U [3.5 U]	8.5 U [9.4 U]	1.5 U	5.1 U
Total tetrachlorodibenzo-p-dioxin (TCDD)	--	--	--	pg/L	1.2 U	NA	NA	NA	NA	NA	NA	NA	0.83 U [0.82 U]	NA	0.99 U	4.3 U [4.3 U]	9.3 U [8.9 U]	1.4 U	8.1 U

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	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	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 MWW103GW10802	MWW1-03 05/19/03 MWW103GW(1-11)	MWW1-03 12/10/03 MWW103GW(1-11)	MWW1-03 12/10/03 MWW103GW(1-11)R2	MWW1-03 05/03/04 MWW103GW (050304)
PCBs																			
Aroclor-1016	0.5	0.5	0.2	ug/L	0.20 U	0.20 U	NA	0.20 U	NA	NA	0.098 U	NA	0.054 U	NA	0.20 U	0.20 UJ	0.20 U	NA	0.20 U
Aroclor-1221	0.5	0.5	0.2	ug/L	0.20 U	0.20 U	NA	0.20 U	NA	NA	0.098 U	NA	0.11 U	NA	0.20 U	0.20 UJ	0.20 U	NA	0.20 U
Aroclor-1232	0.5	0.5	0.2	ug/L	0.40 U	0.40 U	NA	0.40 U	NA	NA	0.098 U	NA	0.056 U	NA	0.40 U	0.40 UJ	0.40 U	NA	0.40 U
Aroclor-1242	0.5	0.5	0.2	ug/L	0.20 U	0.20 U	NA	0.20 U	NA	NA	0.098 U	NA	0.075 U	NA	0.20 U	0.20 UJ	0.20 U	NA	0.20 U
Aroclor-1248	0.5	0.5	0.2	ug/L	0.20 U	0.20 U	NA	0.20 U	NA	NA	0.098 U	NA	0.061 U	NA	0.20 U	0.20 UJ	0.20 U	NA	0.20 U
Aroclor-1254	0.5	0.5	0.2	ug/L	0.20 U	0.20 U	NA	0.20 U	NA	NA	0.098 U	NA	0.082 U	NA	0.20 U	0.20 UJ	0.20 U	NA	0.20 U
Aroclor-1260	0.5	0.5	0.2	ug/L	0.20 U	0.20 U	NA	0.20 U	NA	NA	0.098 U	NA	0.044 U	NA	0.20 U	0.20 UJ	0.20 U	NA	0.20 U
PCBs-Filtered																			
Aroclor-1016 (PCB-1016) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	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	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	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	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	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	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	NA	NA	NA	NA	NA	NA
Volatile Organics																			
1,2,3-Trimethylbenzene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	260	750	19	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	2.6	11	2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	7.3	21	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	95	270	11,000	ug/L	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA
Acetone	730	2,100	1,700	ug/L	10 U	10 U	NA	1.6 J	NA	NA	2.0 J	NA	0.51 UJ	NA	1.1 J	10 UJ	10 U	NA	10 U
Benzene	5	5	200	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	NA	0.16 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
Bromobenzene	18	50	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	80	80	--	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	NA	0.17 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
Bromoform	80	80	--	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	NA	0.18 UJ	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
Bromomethane	10	29	35	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	NA	0.20 UJ	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
2-Butanone	13,000	38,000	2,200	ug/L	10 U	10 U	NA	10 U	NA	NA	25 U	NA	0.41 U	NA	10 U	10 UJ	10 UJ	NA	10 U
n-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	800	2,300	--	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	NA	5.0 U	NA	0.20 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
Carbon Tetrachloride	5	5	45	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U*	NA	0.12 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
CFC-11	2,600	7,300	--	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	NA	0.28 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
CFC-12	1,700	4,800	--	ug/L	2.0 U	2.0 U	NA	2.0 UJ	NA	NA	1.0 U	NA	0.26 U	NA	2.0 U	2.0 UJ	2.0 U	NA	2.0 U
Chlorobenzene	100	100	25	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	NA	0.14 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
Chlorobromomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorodibromomethane	80	80	--	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U*	NA	0.26 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
Chloroethane	430	1,700	1,100	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	NA	0.26 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
Chloroform	80	80	350	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	NA	0.14 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
Chloromethane	260	1,100	--	ug/L	0.39 J	1.0 U	NA	1.0 U	NA	NA	1.0 U	NA	0.13 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
Cyclohexane	--	--	--	ug/L	1.0 U	1.0 U	NA	1.0 UJ	NA	NA	1.0 U	NA	0.13 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
Cymene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	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	2.0 U	NA	NA	1.0 U	NA	0.62 U	NA	2.0 U	2.0 UJ	2.0 U	NA	2.0 U
1,2-Dibromoethane	0.05	0.05	5.7	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	NA	0.22 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
Dibromomethane	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	600	13	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	NA	0.11 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
1,3-Dichlorobenzene	6.6	19	28	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	NA	0.15 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
1,4-Dichlorobenzene	75	75	17	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	NA	0.17 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
1,1-Dichloroethane	880	2,500	740	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	NA	0.16 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
1,2-Dichloroethane	5	5	360	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	NA	0.21 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
1,1-Dichloroethene	7	7	130	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	NA	0.24 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
cis-1,2-Dichloroethene	70	70	620	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	NA	0.22 U	NA	0.50 U	0.50 UJ	0.50 U	NA	0.50 U
trans-1,2-Dichloroethene	100	100	1,500	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	NA	0.15 U	NA	0.50 U	0.50 UJ	0.50 U	NA	0.50 U
Dichloromethane	5	5	1,500	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	NA	5.0 U	NA	0.34 U	NA	1.0 U	1.0 UJ	1.0 UJ	NA	1.0 U
1,2-Dichloropropane	5	5	230	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	NA	0.17 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
cis-1,3-Dichloropropene	--	--	--	ug/L	1.0 U	1.0 UJ	NA	1.0 UJ	NA	NA	1.0 U	NA	0.12 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
trans-1,3-Dichloropropene	--	--	--	ug/L	1.0 U	1.0 U	NA	1.0 UJ	NA	NA	1.0 U*	NA	0.27 U	NA	1.0 U	1.0 UJ	1.0 U	NA	R
Diethyl Ether	10	10	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	7.2	350	2,800	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	74	74	18	ug/L	1.0 U	1.0 U	NA	1.0 UJ	NA	NA	1.0 U	NA	0.12 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
Isopropylbenzene	800	2,300	28	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	NA	5.0 U	NA	0.12 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
Methyl acetate	--	--	--	ug/L	10 U	10 U	NA	10 U	NA	NA	10 U	NA	0.41 U	NA	10 U	10 UJ	10 U	NA	10 U
Methyl N-Butyl Ketone	1,000	2,900	--	ug/L	10 U	10 U	NA	10 U	NA	NA	50 U	NA	0.46 UJ	NA	10 U	10 UJ	10 U	NA	10 U

See Notes on last page.

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	MWW1-02 11/07/07	MWW1-02 05/07/08	MWW1-02 05/07/08	MWW1-02 11/06/08	MWW1-02 11/06/08	MWW1-02 11/06/08	MWW1-02 08/21/13	MWW1-03 01/17/02	MWW1-03 01/17/02	MWW1-03 11/08/02	MWW1-03 11/08/02	MWW1-03 05/19/03	MWW1-03 12/10/03	MWW1-03 12/10/03	MWW1-03 05/03/04
					MWW1-02-GW-110707	MWW1-02-GW-050708	MWW1-02-GW-050708-PP	MWW1-02-GW-110608	MWW1-02-GW-110608-PP	MWW1-02-GW-110608R2	MWW1-02-08212013	MWW1-03-GW-011702	MWW1-03-GW-N	MWW103GW	MWW103GW110802	MWW103GW(1-11)	MWW103GW(1-11)	MWW103GW(1-11)R2	MWW103GW (050304)
Methylcyclohexane	--	--	--	ug/L	1.0 U	1.0 UJ	NA	1.0 UJ	NA	1.0 UJ	NA	1.0 UJ	NA	1.0 UJ	NA	1.0 UJ	1.0 U	1.0 UJ	1.0 U
4-Methyl-2-pentanone	1,800	5,200	--	ug/L	10 U	10 U	NA	10 U	NA	10 U	50 U	NA	0.23 U	NA	10 U	10 UJ	10 U	NA	10 U
Methyl tert-butyl ether	40	40	7,100	ug/L	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA	0.13 U	NA	5.0 U	5.0 UJ	5.0 U	NA	5.0 U
Naphthalene	520	1,500	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	100	80	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	0.15 U	NA	1.0 U	R	R	NA	1.0 U
1,1,1,2-Tetrachloroethane	77	320	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	8.5	35	78	ug/L	1.0 U	1.0 U	NA	1.0 UJ	NA	1.0 U	1.0 U	NA	0.25 U	NA	1.0 U	1.0 UJ	1.0 U	NA	R
Tetrachloroethene	5	5	60	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	0.23 U	NA	1.0 U	1.0 UJ	1.0 U	NA	R
Toluene	790	790	270	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	0.18 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
1,2,3-Trichlorobenzene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	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	1.0 U	NA	1.0 U	1.0 U	NA	0.17 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
1,1,1-Trichloroethane	200	200	89	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	0.15 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
1,1,2-Trichloroethane	5	5	330	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	0.30 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
Trichloroethene	5	5	200	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	0.14 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 UJ
1,2,3-Trichloropropane	42	120	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	170,000	170,000	32	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	0.32 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
1,2,4-Trimethylbenzene	63	63	17	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	72	72	45	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	2	2	13	ug/L	1.0 U	1.0 UJ	NA	1.0 U	NA	1.0 U	1.0 U	NA	0.15 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
o-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	280	280	41	ug/L	2.0 U	2.0 UJ	NA	2.0 U	NA	2.0 U	2.0 U	NA	0.33 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
Semivolatile Organics																			
1,1'-Biphenyl	--	--	--	ug/L	10 U	10 U	NA	NA	NA	10 UJ	0.97 U	NA	10 U	NA	10 U	10 UJ	NA	10 U	10 U
2,2'-Oxybis(1-Chloropropane)	--	--	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	0.97 U	NA	3.1 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
2,4,5-Trichlorophenol	730	2,100	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	4.9 U	NA	4.8 UJ	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
2,4,6-Trichlorophenol	120	470	5	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	3.9 U	NA	6.8 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
2,4-Dichlorophenol	73	210	11	ug/L	10 U	10 U	NA	NA	NA	10 U	9.7 U	NA	3.4 U	NA	10 U	10 UJ	NA	10 U	10 U
2,4-Dimethylphenol	370	1,000	380	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	4.9 U	NA	3.4 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
2,4-Dinitrophenol	--	--	--	ug/L	20 U	20 U	NA	NA	NA	20 U	19 U	NA	12 UJ	NA	20 U	20 UJ	NA	20 U	20 U
2,4-Dinitrotoluene	7.7	32	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	4.9 U	NA	3.2 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
2,6-Dinitrotoluene	--	--	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	4.9 U	NA	2.3 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
2-Chloronaphthalene	1,800	5,200	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 UJ	4.9 U	NA	3.4 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
2-Chlorophenol	45	130	18	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	4.9 U	NA	4.0 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
2-Methylnaphthalene	260	750	19	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	4.9 U	NA	2.6 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
2-Methylphenol	--	--	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	4.9 U	NA	4.4 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
2-Nitroaniline	--	--	--	ug/L	20 U	20 U	NA	NA	NA	20 U	19 U	NA	2.8 U	NA	20 U	20 UJ	NA	20 U	20 U
2-Nitrophenol	20	58	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	4.9 U	NA	8.4 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
3,3'-Dichlorobenzidine	1.1	4.3	0.3	ug/L	20 U	R	NA	NA	NA	R	4.9 U	NA	3.7 U	NA	20 U	20 UJ	NA	20 U	20 U
3-Nitroaniline	--	--	--	ug/L	20 U	20 U	NA	NA	NA	20 U	19 U	NA	2.8 U	NA	20 U	20 UJ	NA	20 U	20 U
4,6-Dinitro-2-methylphenol	20	20	--	ug/L	20 U	20 U	NA	NA	NA	20 U	19 U	NA	5.2 U	NA	20 U	20 UJ	NA	20 U	20 U
4-Bromophenyl-phenylether	--	--	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	4.9 U	NA	3.5 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
4-Chloro-3-Methylphenol	150	420	7.4	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	4.9 U	NA	4.0 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
4-Chloroaniline	--	--	--	ug/L	10 U	10 U	NA	NA	NA	10 U	1.9 U	NA	2.4 U	NA	10 U	10 UJ	NA	10 U	10 U
4-Chlorophenyl-phenylether	--	--	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	4.9 U	NA	3.2 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
4-Methylphenol	--	--	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	4.9 U	NA	5.2 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
4-Nitroaniline	--	--	--	ug/L	20 U	20 U	NA	NA	NA	20 U	19 U	NA	5.2 U	NA	20 U	20 UJ	NA	20 U	20 U
4-Nitrophenol	--	--	--	ug/L	20 U	20 U	NA	NA	NA	20 U	19 U	NA	7.6 U	NA	20 U	20 UJ	NA	20 U	20 U
Acenaphthene	1,300	3,800	38	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	4.9 U	NA	3.2 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
Acenaphthylene	52	150	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	4.9 U	NA	2.8 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
Acetophenone	1,500	4,400	--	ug/L	10 U	10 U	NA	NA	NA	10 U	0.97 U	NA	10 U	NA	10 U	10 UJ	NA	10 U	10 U
Anthracene	43	43	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	4.9 U	NA	2.7 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
Atrazine	3	3	7.3	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	0.97 U	NA	10 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
Benzaldehyde	--	--	--	ug/L	10 U	10 U	NA	NA	NA	10 U	0.97 U	NA	11 U	NA	10 U	10 UJ	NA	10 U	10 U
Benzo(a)anthracene	2.1	8.5	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	0.97 U	NA	2.8 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
Benzo(a)pyrene	5	5	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	0.97 U	NA	2.9 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
Benzo(b)fluoranthene	1.5	1.5	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	0.97 U	NA	3.8 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
Benzo(g,h,i)perylene	1	1	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	0.97 U	NA	3.4 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
Benzo(k)fluoranthene	1	1	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	0.97 U	NA	3.4 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
bis(2-Chloroethoxy)methane	--	--	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	4.9 U	NA	3.5 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
bis(2-Chloroethyl)ether	2	8.3	1	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	0.97 U	NA	R	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
bis(2-Ethylhexyl)phthalate	6	6	25	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	0.70 JB	NA	11 U	NA	5.0 U	5.0 UJ	NA	1.4 J	5.0 U
Butylbenzylphthalate	1,200	2,700	67	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	4.9 U	NA	3.5 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
Caprolactam	5,800	17,000	--	ug/L	10 U	10 U	NA	NA	NA	10 UJ	4.9 U	NA	10 UJ	NA	10 U	10 UJ	NA	10 U	10 U
Carbazole	85	350	10	ug/L	10 U	10 U	NA	NA	NA	10 U	9.7 U	NA	3.3 U	NA	10 U	10 UJ	NA	10 U	10 U
Chrysene	1.6	1.6	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	0.97 U	NA	3.0 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
Dibenzo(a,h)anthracene	2	2	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	1.9 U	NA	3.2 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
Dibenzofuran	--	--	4	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	3.9 U	NA	4.4 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U

See Notes on last page.

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	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	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)	MWW1-03 12/10/03 MWW103GW(1-11)	MWW1-03 12/10/03 MWW103GW(1-11)R2	MWW1-03 05/03/04 MWW103GW (050304)
Diethylphthalate	5,500	16,000	110	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	4.9 U	NA	2.6 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
Dimethylphthalate	73,000	210,000	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	4.9 U	NA	3.0 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
Di-n-Butylphthalate	880	2,500	9.7	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	0.73 J	NA	2.7 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
Di-n-Octylphthalate	130	380	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	4.9 U	NA	4.4 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
Fluoranthene	210	210	1.6	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	0.97 U	NA	3.2 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
Fluorene	880	2,000	12	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	4.9 U	NA	4.0 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
Hexachlorobenzene	1	1	0.2	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	0.19 U	NA	3.0 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
Hexachlorocyclopentadiene	50	50	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	4.9 U	NA	R	NA	5.0 U	5.0 UJ	NA	R	R
Hexachloroethane	7.3	21	6.7	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	4.9 U	NA	3.0 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
Indeno(1,2,3-cd)pyrene	2	2	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	1.9 U	NA	2.5 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
Isophorone	770	3,100	1,300	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	4.9 U	NA	2.5 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
Nitrobenzene	3.4	9.6	180	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	2.9 U	NA	3.2 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
N-Nitroso-di-n-propylamine	5	5	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	4.9 U	NA	2.7 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
N-Nitrosodiphenylamine	270	1,100	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	4.9 U	NA	5.6 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
Pentachlorophenol	1	1	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	4.9 U	NA	9.6 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
Phenanthrene	52	150	2	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	1.9 U	NA	3.3 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
Phenol	4,400	13,000	450	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	4.9 U	NA	10 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
Pyrene	140	140	--	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	4.9 U	NA	4.4 U	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
Hexachloro-1,3-Butadiene	15	42	0.053	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	0.97 U	NA	R	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
Naphthalene	520	1,500	11	ug/L	5.0 U	5.0 U	NA	NA	NA	5.0 U	4.9 U	NA	R	NA	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
Inorganics																			
Antimony	6	6	130	ug/L	25.0 U	25.0 U	NA	25.0 U	NA	NA	0.55 J	NA	2.2 U	NA	25.0 U	25.0 UJ	25.0 U	NA	25.0 U
Arsenic	10	10	10	ug/L	2.0 U	0.81 J	NA	1.6 J	NA	NA	12 B	NA	4.7 J	NA	6.1 J	10.0 UJ	10.0 U	NA	10.0 U
Barium	2,000	2,000	--	ug/L	99.8	66.4 J	NA	75.8 J	NA	NA	170 B	NA	188	NA	166	139 J	245	NA	130
Beryllium	4	4	--	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	NA	0.58 JB	NA	0.54 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
Cadmium	5	5	--	ug/L	5.0 U	5.0 U	NA	5.0 U	NA	NA	0.44 J	NA	0.28 U	NA	5.0 U	5.0 UJ	0.65 J	NA	5.0 U
Calcium	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	100	11	ug/L	10.0 U	10.0 U	NA	10.0 U	NA	NA	0.71 JB	NA	1.4 U	NA	10.0 U	10.0 UJ	10.0 U	NA	10.0 U
Cobalt	40	100	100	ug/L	20.0 U	20.0 U	NA	20.0 U	NA	NA	1.5	NA	1.3 U	NA	1.1 J	20.0 UJ	20.0 U	NA	20.0 U
Copper	1,000	1,000	--	ug/L	5.0 U	5.0 U	NA	5.0 U	NA	NA	2.2 B	NA	4.2 U	NA	5.0 U	5.0 UJ	5.0 U	NA	5.0 U
Cyanide (total)	--	--	--	ug/L	10 U	10 U	NA	10 U	NA	NA	NA	NA	3.4 J	NA	10.0 U	10.0 UJ	10.0 U	NA	10.0 U
Iron	300	300	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	4	4	--	ug/L	3.0 U	3.0 U	NA	3.0 U	NA	NA	0.94 JB	NA	2.5 U	NA	3.0 U	3.0 UJ	3.0 U	NA	3.0 U
Magnesium	400,000	1,100,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	50	--	ug/L	374	187 J	NA	1,230 J	NA	NA	1,300 B	NA	427 J	NA	429 J	494 J	1,320	NA	873
Mercury	2	2	0.0013	ug/L	0.20 U	0.20 U	NA	0.20 U	NA	NA	0.20 U	NA	0.069 U	NA	0.20 U	0.20 UJ	0.20 U	NA	0.20 U
Nickel	100	100	--	ug/L	20.0 U	20.0 U	NA	20.0 U	NA	NA	3.1 B	NA	2.9 J	NA	20.0 U	20.0 UJ	5.3 J	NA	20.0 U
Selenium	50	50	5	ug/L	5.0 U	5.0 U	NA	5.0 U	NA	NA	1.3 J	NA	4.5 U	NA	5.0 U	5.0 UJ	5.0 U	NA	5.0 U
Silver	34	98	0.2	ug/L	5.0 U	5.0 U	NA	5.0 U	NA	NA	0.058 JB	NA	1.5 U	NA	5.0 U	5.0 UJ	5.0 U	NA	5.0 U
Thallium	2	2	3.7	ug/L	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	NA	0.018 U	NA	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
Vanadium	4.5	62	27	ug/L	10.0 U	10.0 U	NA	10.0 U	NA	NA	1.1 JB	NA	0.82 U	NA	10.0 U	10.0 UJ	10.0 U	NA	10.0 U
Zinc	2,400	5,000	--	ug/L	20.0 U	20.0 U	NA	20.0 U	NA	NA	6.8 JB	NA	12.0 U	NA	20.0 U	20.0 UJ	20.0 U	NA	20.0 U
Inorganics-Filtered																			
Antimony (dissolved)	6	6	130	ug/L	NA	NA	NA	NA	NA	NA	0.31 J	NA	2.2 U	NA	NA	NA	NA	NA	NA
Arsenic (dissolved)	10	10	10	ug/L	NA	NA	NA	NA	NA	NA	12 B	NA	4.3 J	NA	NA	NA	NA	NA	NA
Barium (dissolved)	2,000	2,000	--	ug/L	NA	NA	NA	NA	NA	NA	180 B	NA	191	NA	NA	NA	NA	NA	NA
Beryllium (dissolved)	4	4	--	ug/L	NA	NA	NA	NA	NA	NA	0.31 JB	NA	0.54 U	NA	NA	NA	NA	NA	NA
Cadmium (dissolved)	5	5	--	ug/L	NA	NA	NA	NA	NA	NA	0.026 J	NA	0.28 U	NA	NA	NA	NA	NA	NA
Chromium (dissolved)	100	100	11	ug/L	NA	NA	NA	NA	NA	NA	0.46 JB	NA	1.4 U	NA	NA	NA	NA	NA	NA
Cobalt (dissolved)	40	100	100	ug/L	NA	NA	NA	NA	NA	NA	1.1	NA	1.3 U	NA	NA	NA	NA	NA	NA
Copper (dissolved)	1,000	1,000	--	ug/L	NA	NA	NA	NA	NA	NA	1.7 JB	NA	4.2 U	NA	NA	NA	NA	NA	NA
Iron (dissolved)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (dissolved)	4	4	--	ug/L	NA	NA	NA	NA	NA	NA	0.44 JB	NA	2.5 U	NA	NA	NA	NA	NA	NA
Manganese (dissolved)	50	50	--	ug/L	NA	NA	NA	NA	NA	NA	1,300 B	NA	433 J	NA	NA	NA	NA	NA	NA
Mercury (dissolved)	--	--	0.0013	ug/L	NA	NA	NA	NA	NA	NA	0.20 U	NA	0.069 U	NA	NA	NA	NA	NA	NA
Nickel (dissolved)	100	100	--	ug/L	NA	NA	NA	NA	NA	NA	2.8 B	NA	3.6 J	NA	NA	NA	NA	NA	NA
Selenium (dissolved)	50	50	5	ug/L	NA	NA	NA	NA	NA	NA	0.61 J	NA	4.5 U	NA	NA	NA	NA	NA	NA
Silver (dissolved)	34	98	0.2	ug/L	NA	NA	NA	NA	NA	NA	0.0090 JB	NA	1.5 U	NA	NA	NA	NA	NA	NA
Thallium (dissolved)	2	2	3.7	ug/L	NA	NA	NA	NA	NA	NA	1.0 U	NA	0.018 U	NA	NA	NA	NA	NA	NA
Vanadium (dissolved)	4.5	62	27	ug/L	NA	NA	NA	NA	NA	NA	0.75 JB	NA	0.82 U	NA	NA	NA	NA	NA	NA
Zinc (dissolved)	2,400	5,000	--	ug/L	NA	NA	NA	NA	NA	NA	4.6 JB	NA	12.0 U	NA	NA	NA	NA	NA	NA
Miscellaneous																			
Alkalinity, total (as CaCO3)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	530,000	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	--	--	--	none	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA
Total Suspended Solids	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field																			

See Notes on last page.

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	MWW1-02 11/07/07	MWW1-02 05/07/08	MWW1-02 05/07/08	MWW1-02 11/06/08	MWW1-02 11/06/08	MWW1-02 11/06/08	MWW1-02 08/21/13	MWW1-03 01/17/02	MWW1-03 01/17/02	MWW1-03 11/08/02	MWW1-03 11/08/02	MWW1-03 05/19/03	MWW1-03 12/10/03	MWW1-03 12/10/03	MWW1-03 05/03/04
					MWW1-02-GW-110707	MWW1-02-GW-050708	MWW1-02-GW-050708-FP	MWW1-02-GW-110608	MWW1-02-GW-110608-FP	MWW1-02-GW-110608R2	MWW1-02_08212013	MWW1-03-GW-011702	MWW1-03-GW-N	MWW103GW	MWW103GW110802	MWW103GW(1-11)	MWW103GW(1-11)	MWW103GW(1-11)R2	MWW103GW (050304)
Conductivity, field	--	--	--	mS/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity, field	--	--	--	umhos/cm	1.063	NA	0.951	NA	1.49	NA	NA	NA	NA	NA	NA	NA	2.69	NA	NA
Dissolved oxygen (DO), field	--	--	--	ug/L	390	NA	1,300	NA	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation reduction potential (ORP), field	--	--	--	millivolts	-89.0	NA	-62.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, ambient	--	--	--	deg f	35	NA	65	NA	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, field	--	--	--	deg c	13.75	NA	13.66	NA	13.94	NA	NA	NA	NA	NA	NA	NA	8.61	NA	NA
Turbidity (field)	--	--	--	NTU	4.2	NA	NA	NA	0.69	NA	NA	NA	NA	NA	NA	NA	1.79	NA	NA
Dioxins/Furans																			
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	--	pg/L	14 U	2.4 U	NA	4.6 U	NA	NA	NA	1.6 UJ	NA	50 U	NA	6.5 UJ	10 U	NA	3.8 U
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	--	--	--	pg/L	13 U	15 U	NA	4.9 U	NA	NA	NA	1.9 U	NA	50 U	NA	7.0 UJ	8.3 U	NA	7.2 U
1,2,3,4,6,7,8-HpCDD	--	--	--	pg/L	7.9 U	1.7 U	NA	3.6 U	NA	NA	NA	1.1 UJ	NA	25 U	NA	4.0 UJ	4.6 U	NA	1.8 U
1,2,3,4,6,7,8-HpCDF	--	--	--	pg/L	4.7 U	1.3 U	NA	2.6 U	NA	NA	NA	0.7 U	NA	25 U	NA	4.5 UJ	2.9 U	NA	0.67 U
1,2,3,4,7,8,9-HpCDF	--	--	--	pg/L	5.5 U	1.5 U	NA	3.0 U	NA	NA	NA	0.9 U	NA	25 U	NA	3.3 UJ	3.3 U	NA	0.82 U
1,2,3,4,7,8-HxCDD	--	--	--	pg/L	7.1 U	1.4 U	NA	4.4 U	NA	NA	NA	0.8 U	NA	25 U	NA	4.2 UJ	5.6 U	NA	1.4 U
1,2,3,4,7,8-HxCDF	--	--	--	pg/L	4.1 U	1.1 U	NA	3.1 U	NA	NA	NA	0.5 UJ	NA	25 U	NA	4.6 UJ	5.0 U	NA	1.1 U
1,2,3,6,7,8-HxCDD	--	--	--	pg/L	7.7 U	1.4 U	NA	3.9 U	NA	NA	NA	0.9 U	NA	25 U	NA	4.4 UJ	5.3 U	NA	1.2 U
1,2,3,6,7,8-HxCDF	--	--	--	pg/L	4.0 U	1.1 U	NA	2.7 U	NA	NA	NA	0.5 U	NA	25 U	NA	4.5 UJ	4.6 U	NA	0.93 U
1,2,3,7,8,9-HxCDD	--	--	--	pg/L	5.9 U	1.2 U	NA	3.9 U	NA	NA	NA	0.8 U	NA	25 U	NA	4.0 UJ	5.2 U	NA	1.2 U
1,2,3,7,8,9-HxCDF	--	--	--	pg/L	4.2 U	1.2 U	NA	3.1 U	NA	NA	NA	0.7 U	NA	25 U	NA	5.1 UJ	5.3 U	NA	1.2 U
1,2,3,7,8-PeCDD	--	--	--	pg/L	7.6 U	2.5 U	NA	4.4 U	NA	NA	NA	1.3 U	NA	10 U	NA	3.8 UJ	5.4 U	NA	2.7 U
1,2,3,7,8-PeCDF	--	--	--	pg/L	5.0 U	1.4 U	NA	3.3 U	NA	NA	NA	1 U	NA	10 U	NA	2.7 UJ	3.9 U	NA	1.1 U
2,3,4,6,7,8-HxCDF	--	--	--	pg/L	4.2 U	1.1 U	NA	3.0 U	NA	NA	NA	0.6 U	NA	25 U	NA	4.7 UJ	4.8 U	NA	1.1 U
2,3,4,7,8-PeCDF	--	--	--	pg/L	5.1 U	1.5 U	NA	3.4 U	NA	NA	NA	0.9 U	NA	10 U	NA	2.7 UJ	3.8 U	NA	1.1 U
2,3,7,8-TCDD	30	30	10	pg/L	4.7 U	1.2 U	NA	3.4 U	NA	NA	NA	1.1 U	NA	10 U	NA	2.4 UJ	3.3 U	NA	0.82 U
2,3,7,8-TCDF	--	--	--	pg/L	3.6 U	0.98 U	NA	2.0 U	NA	NA	NA	0.8 U	NA	10 U	NA	1.7 UJ	2.3 U	NA	0.98 U
Total heptachlorodibenzofuran (HpCDF)	--	--	--	pg/L	5.5 U	1.9 U	NA	3.0 U	NA	NA	NA	0.8 U	NA	NA	NA	NA	NA	NA	NA
Total heptachlorodibenzo-p-dioxin (HpCDD)	--	--	--	pg/L	7.9 U	2.1 U	NA	3.6 U	NA	NA	NA	3.8 J	NA	NA	NA	NA	NA	NA	NA
Total hexachlorodibenzofuran (HxCDF)	--	--	--	pg/L	4.2 U	1.2 U	NA	3.1 U	NA	NA	NA	3.3	NA	NA	NA	NA	NA	NA	NA
Total hexachlorodibenzo-p-dioxin (HxCDD)	--	--	--	pg/L	7.7 U	1.4 U	NA	4.4 U	NA	NA	NA	0.8 U	NA	NA	NA	NA	NA	NA	NA
Total pentachlorodibenzofuran (PeCDF)	--	--	--	pg/L	5.1 U	1.5 U	NA	3.4 U	NA	NA	NA	0.9 U	NA	NA	NA	NA	NA	NA	NA
Total pentachlorodibenzo-p-dioxin (PeCDD)	--	--	--	pg/L	8.4 U	2.5 U	NA	4.4 U	NA	NA	NA	1.8 J	NA	NA	NA	NA	NA	NA	NA
Total TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzofuran (TCDF)	--	--	--	pg/L	3.6 U	0.98 U	NA	2.0 U	NA	NA	NA	0.8 U	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzo-p-dioxin (TCDD)	--	--	--	pg/L	4.7 U	1.2 U	NA	3.4 U	NA	NA	NA	1.1 U	NA	NA	NA	NA	NA	NA	NA

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



Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	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	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-GW-081506	MWW1-03 08/15/06 MWW1-03-GW-081506(DISS)	MWW1-03 08/15/06 MWW1-03-GW-081506-FP	MWW1-03 11/13/06 MWW1-03-GW-111306	MWW1-03 11/13/06 MWW1-03-GW-111306DL
PCBs																	
Aroclor-1016	0.5	0.5	0.2	ug/L	NA	0.20 U	NA	0.20 U [0.2 U]	NA	0.20 U	0.20 U	0.20 U	NA	NA	NA	0.20 U [0.2 U]	NA
Aroclor-1221	0.5	0.5	0.2	ug/L	NA	0.20 U	NA	0.20 U [0.2 U]	NA	0.20 U	0.20 U	0.20 U	NA	NA	NA	0.20 U [0.2 U]	NA
Aroclor-1232	0.5	0.5	0.2	ug/L	NA	0.40 U	NA	0.40 U [0.4 U]	NA	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U [0.4 U]	NA
Aroclor-1242	0.5	0.5	0.2	ug/L	NA	0.20 U	NA	0.20 U [0.2 U]	NA	0.20 U	0.20 U	0.20 U	NA	NA	NA	0.20 U [0.2 U]	NA
Aroclor-1248	0.5	0.5	0.2	ug/L	NA	0.20 U	NA	0.20 U [0.2 U]	NA	0.20 U	0.20 U	0.20 U	NA	NA	NA	0.20 U [0.2 U]	NA
Aroclor-1254	0.5	0.5	0.2	ug/L	NA	0.20 U	NA	0.20 U [0.2 U]	NA	0.20 U	0.20 U	0.20 U	NA	NA	NA	0.20 U [0.2 U]	NA
Aroclor-1260	0.5	0.5	0.2	ug/L	NA	0.20 U	NA	0.064 J [0.2 J]	NA	0.86	0.20 U	0.20 U	NA	NA	NA	0.20 U [0.2 U]	NA
PCBs-Filtered																	
Aroclor-1016 (PCB-1016) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	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	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	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	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	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	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	NA	NA	NA	NA
Volatile Organics																	
1,2,3-Trimethylbenzene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	260	750	19	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	2.6	11	2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	7.3	21	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	95	270	11,000	ug/L	NA	NA	NA	NA	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	NA	NA	NA	NA
Acetone	730	2,100	1,700	ug/L	NA	10 UJ	NA	10 U [10 U]	NA	10 U	10 U	1.9 J	NA	NA	NA	NA	9.4 J [9.2 J]
Benzene	5	5	200	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
Bromobenzene	18	50	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	80	80	--	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
Bromoform	80	80	--	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
Bromomethane	10	29	35	ug/L	NA	1.0 U	NA	1.0 UJ [1 U]	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	5.0 UJ [5 UJ]
2-Butanone	13,000	38,000	2,200	ug/L	NA	10 UJ	NA	10 U [10 U]	NA	10 U	10 U	10 U	NA	NA	NA	NA	50 U [50 U]
n-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	800	2,300	--	ug/L	NA	1.0 U	NA	0.59 J [1 U]	NA	1.1	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
Carbon Tetrachloride	5	5	45	ug/L	NA	1.0 UJ	NA	1.0 U [1 U]	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
CFC-11	2,600	7,300	--	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
CFC-12	1,700	4,800	--	ug/L	NA	2.0 U	NA	2.0 U [2 U]	NA	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA	10 U [10 U]
Chlorobenzene	100	100	25	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
Chlorobromomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorodibromomethane	80	80	--	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
Chloroethane	430	1,700	1,100	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
Chloroform	80	80	350	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
Chloromethane	260	1,100	--	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
Cyclohexane	--	--	--	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
Cymene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.2	0.2	--	ug/L	NA	2.0 UJ	NA	2.0 U [2 U]	NA	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA	10 U [10 U]
1,2-Dibromoethane	0.05	0.05	5.7	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
Dibromomethane	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	600	13	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
1,3-Dichlorobenzene	6.6	19	28	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
1,4-Dichlorobenzene	75	75	17	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
1,1-Dichloroethane	880	2,500	740	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
1,2-Dichloroethane	5	5	360	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
1,1-Dichloroethene	7	7	130	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
cis-1,2-Dichloroethene	70	70	620	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
trans-1,2-Dichloroethene	100	100	1,500	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
Dichloromethane	5	5	1,500	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	4.7 J [5.3 J]
1,2-Dichloropropane	5	5	230	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
cis-1,3-Dichloropropene	--	--	--	ug/L	NA	1.0 UJ	NA	1.0 U [1 U]	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
trans-1,3-Dichloropropene	--	--	--	ug/L	NA	1.0 UJ	NA	1.0 U [1 U]	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
Diethyl Ether	10	10	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	7.2	350	2,800	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	74	74	18	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
Isopropylbenzene	800	2,300	28	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
Methyl acetate	--	--	--	ug/L	NA	10 U	NA	10 U [10 U]	NA	10 U	10 U	10 U	NA	NA	NA	NA	50 U [50 U]
Methyl N-Butyl Ketone	1,000	2,900	--	ug/L	NA	10 UJ	NA	10 U [10 U]	NA	10 U	10 U	10 U	NA	NA	NA	NA	50 U [50 U]

See Notes on last page.

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



Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	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	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
Methylcyclohexane	--	--	--	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	NA	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
4-Methyl-2-pentanone	1,800	5,200	--	ug/L	NA	10 U	NA	10 U [10 U]	NA	NA	10 U	10 U	NA	NA	NA	NA	50 U [50 U]
Methyl tert-butyl ether	40	40	7,100	ug/L	NA	5.0 U	NA	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	NA	25 U [25 U]
Naphthalene	520	1,500	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	100	80	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	NA	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
1,1,1,2-Tetrachloroethane	77	320	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	8.5	35	78	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	NA	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
Tetrachloroethene	5	5	60	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	NA	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
Toluene	790	790	270	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	NA	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
1,2,3-Trichlorobenzene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	70	99	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	NA	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
1,1,1-Trichloroethane	200	200	89	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	NA	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
1,1,2-Trichloroethane	5	5	330	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	NA	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
Trichloroethene	5	5	200	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	NA	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
1,2,3-Trichloropropane	42	120	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	170,000	170,000	32	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	NA	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
1,2,4-Trimethylbenzene	63	63	17	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	72	72	45	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	2	2	13	ug/L	NA	1.0 U	NA	1.0 U [1 U]	NA	NA	1.0 U	1.0 U	NA	NA	NA	NA	5.0 U [5 U]
o-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	280	280	41	ug/L	NA	2.0 U	NA	2.0 U [2 U]	NA	NA	2.0 U	2.0 U	NA	NA	NA	NA	10 U [10 U]
Semivolatile Organics																	
1,1'-Biphenyl	--	--	--	ug/L	NA	NA	40 U	10 U [10 U]	NA	NA	10 U	10 U	NA	NA	NA	10 U [10 U]	NA
2,2'-Oxybis(1-Chloropropane)	--	--	--	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
2,4,5-Trichlorophenol	730	2,100	--	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
2,4,6-Trichlorophenol	120	470	5	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
2,4-Dichlorophenol	73	210	11	ug/L	NA	NA	40 U	10 U [10 U]	NA	NA	10 U	10 U	NA	NA	NA	10 U [10 U]	NA
2,4-Dimethylphenol	370	1,000	380	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
2,4-Dinitrophenol	--	--	--	ug/L	NA	NA	80 U	20 U [20 U]	NA	NA	20 U	20 U	NA	NA	NA	20 U [20 U]	NA
2,4-Dinitrotoluene	7.7	32	--	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
2,6-Dinitrotoluene	--	--	--	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
2-Chloronaphthalene	1,800	5,200	--	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
2-Chlorophenol	45	130	18	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
2-Methylnaphthalene	260	750	19	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
2-Methylphenol	--	--	--	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
2-Nitroaniline	--	--	--	ug/L	NA	NA	80 U	20 U [20 U]	NA	NA	20 U	20 U	NA	NA	NA	20 U [20 U]	NA
2-Nitrophenol	20	58	--	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
3,3'-Dichlorobenzidine	1.1	4.3	0.3	ug/L	NA	NA	80 U	20 U [20 U]	NA	NA	20 U	20 U	NA	NA	NA	20 U [20 U]	NA
3-Nitroaniline	--	--	--	ug/L	NA	NA	80 U	20 U [20 U]	NA	NA	20 U	20 U	NA	NA	NA	20 U [20 U]	NA
4,6-Dinitro-2-methylphenol	20	20	--	ug/L	NA	NA	80 U	20 U [20 U]	NA	NA	20 U	20 U	NA	NA	NA	20 U [20 U]	NA
4-Bromophenyl-phenylether	--	--	--	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
4-Chloro-3-Methylphenol	150	420	7.4	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
4-Chloroaniline	--	--	--	ug/L	NA	NA	40 U	10 U [10 U]	NA	NA	10 U	10 U	NA	NA	NA	10 U [10 U]	NA
4-Chlorophenyl-phenylether	--	--	--	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
4-Methylphenol	--	--	--	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
4-Nitroaniline	--	--	--	ug/L	NA	NA	80 U	20 U [20 U]	NA	NA	20 U	20 U	NA	NA	NA	20 U [20 U]	NA
4-Nitrophenol	--	--	--	ug/L	NA	NA	80 U	20 U [20 U]	NA	NA	20 U	20 U	NA	NA	NA	20 U [20 U]	NA
Acenaphthene	1,300	3,800	38	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Acenaphthylene	52	150	--	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Acetophenone	1,500	4,400	--	ug/L	NA	NA	40 U	10 U [10 U]	NA	NA	10 U	10 U	NA	NA	NA	10 U [10 U]	NA
Anthracene	43	43	--	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Atrazine	3	3	7.3	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Benzaldehyde	--	--	--	ug/L	NA	NA	40 U	10 U [10 U]	NA	NA	10 U	10 U	NA	NA	NA	10 U [10 U]	NA
Benzo(a)anthracene	2.1	8.5	--	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Benzo(a)pyrene	5	5	--	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Benzo(b)fluoranthene	1.5	1.5	--	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Benzo(g,h,i)perylene	1	1	--	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Benzo(k)fluoranthene	1	1	--	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
bis(2-Chloroethoxy)methane	--	--	--	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
bis(2-Chloroethyl)ether	2	8.3	1	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
bis(2-Ethylhexyl)phthalate	6	6	25	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	1.3 J	NA	NA	NA	5.0 U [5 U]	NA
Butylbenzylphthalate	1,200	2,700	67	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Caprolactam	5,800	17,000	--	ug/L	NA	NA	40 U	10 U [10 U]	NA	NA	10 U	10 U	NA	NA	NA	10 U [10 U]	NA
Carbazole	85	350	10	ug/L	NA	NA	40 U	10 U [10 U]	NA	NA	10 U	10 U	NA	NA	NA	10 U [10 U]	NA
Chrysene	1.6	1.6	--	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Dibenzo(a,h)anthracene	2	2	--	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Dibenzofuran	--	--	4	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA

See Notes on last page.

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	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	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
Diethylphthalate	5,500	16,000	110	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Dimethylphthalate	73,000	210,000	--	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Di-n-Butylphthalate	880	2,500	9.7	ug/L	NA	NA	20 U	0.45 J [0.53 J]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Di-n-Octylphthalate	130	380	--	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Fluoranthene	210	210	1.6	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Fluorene	880	2,000	12	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Hexachlorobenzene	1	1	0.2	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Hexachlorocyclopentadiene	50	50	--	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Hexachloroethane	7.3	21	6.7	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Indeno(1,2,3-cd)pyrene	2	2	--	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Isophorone	770	3,100	1,300	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Nitrobenzene	3.4	9.6	180	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
N-Nitroso-di-n-propylamine	5	5	--	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
N-Nitrosodiphenylamine	270	1,100	--	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Pentachlorophenol	1	1	--	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Phenanthrene	52	150	2	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Phenol	4,400	13,000	450	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Pyrene	140	140	--	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Hexachloro-1,3-Butadiene	15	42	0.053	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Naphthalene	520	1,500	11	ug/L	NA	NA	20 U	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Inorganics																	
Antimony	6	6	130	ug/L	25.0 U	25.0 U	NA	25.0 U [25 U]	NA	NA	25.0 U	25.0 U	NA	NA	NA	25.0 U [25 U]	NA
Arsenic	10	10	10	ug/L	10.0 U	10.0 U	NA	3.2 J [3.2 J]	NA	NA	10.0 U	2.0	NA	NA	NA	2.0 [1.7 J]	NA
Barium	2,000	2,000	--	ug/L	161	105	NA	130 [127]	NA	NA	134	162	NA	NA	NA	219 [214]	NA
Beryllium	4	4	--	ug/L	1.0 U	1.0 U	NA	1.0 U [1 U]	NA	NA	1.0 U	1.0 U	NA	NA	NA	1.0 U [1 U]	NA
Cadmium	5	5	--	ug/L	5.0 U	5.0 U	NA	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Calcium	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	100	11	ug/L	7.2 J	10.0 U	NA	10.0 U [10 U]	NA	NA	4.6 J	3.3 J	NA	NA	NA	10.0 U [10 U]	NA
Cobalt	40	100	100	ug/L	2.1 J	20.0 U	NA	20.0 U [20 U]	NA	NA	1.6 J	1.8 J	NA	NA	NA	20.0 U [20 U]	NA
Copper	1,000	1,000	--	ug/L	5.0 U	5.0 U	NA	5.0 U [5 U]	NA	NA	4.1 J	3.2 J	NA	NA	NA	5.0 U [5 U]	NA
Cyanide (total)	--	--	--	ug/L	NA	10 U	NA	10 U [10 U]	NA	NA	10 U	10 U	NA	NA	NA	10 [5.8 J]	NA
Iron	300	300	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	4	4	--	ug/L	3.0 U	3.0 U	NA	3.0 U [3 U]	NA	NA	18.1	4.4	NA	NA	NA	3.0 U [3 U]	NA
Magnesium	400,000	1,100,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	50	--	ug/L	740	568	NA	725 [717]	NA	NA	675 J	737 J	NA	NA	NA	741 J [724 J]	NA
Mercury	2	2	0.0013	ug/L	0.20 U	0.20 U	NA	0.20 U [0.2 U]	NA	NA	0.20 U	0.20 U	NA	NA	NA	0.20 U [0.2 U]	NA
Nickel	100	100	--	ug/L	8.5 J	20.0 U	NA	2.8 J [3 J]	NA	NA	9.3 J	4.6 J	NA	NA	NA	20.0 U [20 U]	NA
Selenium	50	50	5	ug/L	5.0 U	5.0 U	NA	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Silver	34	98	0.2	ug/L	5.0 U	5.0 U	NA	5.0 U [5 U]	NA	NA	5.0 U	5.0 U	NA	NA	NA	5.0 U [5 U]	NA
Thallium	2	2	3.7	ug/L	1.0 U	1.0 U	NA	1.0 U [1 U]	NA	NA	1.0 U	1.0 U	NA	NA	NA	1.0 U [1 U]	NA
Vanadium	4.5	62	27	ug/L	1.4 J	10.0 U	NA	10.0 U [10 U]	NA	NA	3.2 J	10.0 U	NA	NA	NA	10.0 U [10 U]	NA
Zinc	2,400	5,000	--	ug/L	25.9	20.0 U	NA	20.0 U [20 U]	NA	NA	35.2	20.5	NA	NA	NA	20.0 U [20 U]	NA
Inorganics-Filtered																	
Antimony (dissolved)	6	6	130	ug/L	25.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (dissolved)	10	10	10	ug/L	10.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (dissolved)	2,000	2,000	--	ug/L	153	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (dissolved)	4	4	--	ug/L	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (dissolved)	5	5	--	ug/L	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (dissolved)	100	100	11	ug/L	4.5 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (dissolved)	40	100	100	ug/L	2.3 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (dissolved)	1,000	1,000	--	ug/L	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (dissolved)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (dissolved)	4	4	--	ug/L	3.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (dissolved)	50	50	--	ug/L	739	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (dissolved)	--	--	0.0013	ug/L	0.20 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (dissolved)	100	100	--	ug/L	5.6 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (dissolved)	50	50	5	ug/L	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (dissolved)	34	98	0.2	ug/L	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (dissolved)	2	2	3.7	ug/L	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (dissolved)	4.5	62	27	ug/L	1.6 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (dissolved)	2,400	5,000	--	ug/L	20.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																	
Alkalinity, total (as CaCO3)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	--	--	--	none	NA	NA	NA	NA	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	NA	NA	NA	NA
Total Suspended Solids	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field																	

See Notes on last page.

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	MWW1-03 05/17/04	MWW1-03 10/26/04	MWW1-03 10/26/04	MWW1-03 05/11/05	MWW1-03 05/11/05	MWW1-03 09/20/05	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
					MWW103GW051704	MWW1-03-GW-102604	MWW1-03-GW-102604DL	MWW1-03-GW-051105	MWW1-03-GW-051105R2	MWW1-03-GW-092005	MWW1-03-GW-110205FD	MWW1-03-GW-051706TB	MWW1-03-GW-081506	MWW1-03-WG-081506(DISS)	MWW1-03-WG-081506-FP	MWW1-03-WG-111306	MWW1-03-WG-111306DL
Conductivity, field	--	--	--	mS/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.18	NA
Conductivity, field	--	--	--	umhos/cm	3.96	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.6	NA	NA
Dissolved oxygen (DO), field	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	140	140	NA
Oxidation reduction potential (ORP), field	--	--	--	millivolts	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-81.0	-153.0	NA
Temperature, ambient	--	--	--	deg f	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	65	40	NA
Temperature, field	--	--	--	deg c	19.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.3	10.38	NA
Turbidity (field)	--	--	--	NTU	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.29	4.6	NA
Dioxins/Furans																	
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	--	pg/L	NA	2.4 U	NA	NA	2.2 U [1.8 U]	NA	14 U	12 U	4.3 U	NA	NA	4.7 U [4.8 U]	NA
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	--	--	--	pg/L	NA	4.3 U	NA	NA	10 U [7.1 U]	NA	18 U	60 J	8.1 U	NA	NA	19 U [22 U]	NA
1,2,3,4,6,7,8-HpCDD	--	--	--	pg/L	NA	0.61 U	NA	NA	1.2 U [1.2 U]	NA	8.9 U	23 U	2.8 U	NA	NA	3.4 U [3.1 U]	NA
1,2,3,4,6,7,8-HpCDF	--	--	--	pg/L	NA	2.1 U	NA	NA	0.98 U [1.3 U]	NA	5.1 U	16 U	2.3 U	NA	NA	2.0 U [2 U]	NA
1,2,3,4,7,8,9-HpCDF	--	--	--	pg/L	NA	0.55 U	NA	NA	1.1 U [0.93 U]	NA	6.5 U	7.6 U	2.8 U	NA	NA	2.4 U [2.3 U]	NA
1,2,3,4,7,8-HxCDD	--	--	--	pg/L	NA	1.4 U	NA	NA	1.8 U [1.5 U]	NA	7.3 U	8.2 U	3.1 U	NA	NA	3.0 U [3.1 U]	NA
1,2,3,4,7,8-HxCDF	--	--	--	pg/L	NA	2.4 U	NA	NA	2.0 U [1.6 U]	NA	6.0 U	8.0 U	4.0 U	NA	NA	2.1 U [2.3 U]	NA
1,2,3,6,7,8-HxCDD	--	--	--	pg/L	NA	1.1 U	NA	NA	1.6 U [1.4 U]	NA	5.6 U	7.5 U	2.8 U	NA	NA	2.9 U [3 U]	NA
1,2,3,6,7,8-HxCDF	--	--	--	pg/L	NA	0.75 U	NA	NA	2.0 U [1.6 U]	NA	5.2 U	7.4 U	3.8 U	NA	NA	1.9 U [2.1 U]	NA
1,2,3,7,8,9-HxCDD	--	--	--	pg/L	NA	1.1 U	NA	NA	1.7 U [1.4 U]	NA	6.4 U	7.3 U	2.8 U	NA	NA	2.8 U [2.9 U]	NA
1,2,3,7,8,9-HxCDF	--	--	--	pg/L	NA	0.61 U	NA	NA	2.4 U [1.9 U]	NA	8.0 U	8.3 U	4.5 U	NA	NA	2.4 U [2.7 U]	NA
1,2,3,7,8-PeCDD	--	--	--	pg/L	NA	1.7 U	NA	NA	2.3 U [2.1 U]	NA	8.0 U	16 U	4.0 U	NA	NA	3.4 U [4 U]	NA
1,2,3,7,8-PeCDF	--	--	--	pg/L	NA	1.1 U	NA	NA	1.3 U [1.4 U]	NA	5.1 U	11 U	2.6 U	NA	NA	1.8 U [1.9 U]	NA
2,3,4,6,7,8-HxCDF	--	--	--	pg/L	NA	0.54 U	NA	NA	2.1 U [1.7 U]	NA	6.6 U	8.1 U	4.1 U	NA	NA	2.2 U [2.4 U]	NA
2,3,4,7,8-PeCDF	--	--	--	pg/L	NA	1.1 U	NA	NA	1.3 U [1.4 U]	NA	5.1 U	11 U	2.6 U	NA	NA	1.8 U [1.9 U]	NA
2,3,7,8-TCDD	30	30	10	pg/L	NA	0.83 U	NA	NA	0.98 U [0.79 U]	NA	4.8 U	4.1 UJ	2.3 U	NA	NA	1.3 U [1.3 U]	NA
2,3,7,8-TCDF	--	--	--	pg/L	NA	2.7 U	NA	NA	1.2 U [1 U]	NA	3.5 U	3.8 UJ	2.3 U	NA	NA	1.4 U [1.5 U]	NA
Total heptachlorodibenzofuran (HpCDF)	--	--	--	pg/L	NA	2.1 U	NA	NA	1.1 U [1.3 U]	NA	6.5 U	16 U	2.8 U	NA	NA	2.4 U [2.3 U]	NA
Total heptachlorodibenzo-p-dioxin (HpCDD)	--	--	--	pg/L	NA	0.73 U	NA	NA	2.0 U [1.4 U]	NA	8.9 U	23 U	2.8 U	NA	NA	3.4 U [3.1 U]	NA
Total hexachlorodibenzofuran (HxCDF)	--	--	--	pg/L	NA	2.4 U	NA	NA	2.4 U [1.9 U]	NA	8.0 U	8.3 U	4.5 U	NA	NA	2.4 U [2.7 U]	NA
Total hexachlorodibenzo-p-dioxin (HxCDD)	--	--	--	pg/L	NA	1.4 U	NA	NA	1.8 U [1.5 U]	NA	7.3 U	8.2 U	3.1 U	NA	NA	3.0 U [3.1 U]	NA
Total pentachlorodibenzofuran (PeCDF)	--	--	--	pg/L	NA	1.8 U	NA	NA	1.5 U [1.4 U]	NA	5.1 U	11 U	3.0 U	NA	NA	1.8 U [1.9 U]	NA
Total pentachlorodibenzo-p-dioxin (PeCDD)	--	--	--	pg/L	NA	1.7 U	NA	NA	2.3 U [2.1 U]	NA	8.0 U	21 U	4.0 U	NA	NA	13 U [11 U]	NA
Total TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzofuran (TCDF)	--	--	--	pg/L	NA	2.7 U	NA	NA	1.2 U [1 U]	NA	3.5 U	3.8 U	2.3 U	NA	NA	1.6 U [1.5 U]	NA
Total tetrachlorodibenzo-p-dioxin (TCDD)	--	--	--	pg/L	NA	0.83 U	NA	NA	0.98 U [0.79 U]	NA	4.8 U	4.1 U	2.3 U	NA	NA	1.3 U [1.3 U]	NA

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	MWW1-03 05/04/07 MWW1-03-GW-050407	MWW1-03 05/04/07 MWW1-03-GW-050407DL	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	MWW1-15 10/05/07 MWW1-15-GW-100507-FP	MWW1-15 11/14/07 MWW1-15-GW-111407
PCBs																	
Aroclor-1016	0.5	0.5	0.2	ug/L	0.20 U [0.2 U]	NA	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	NA	NA
Aroclor-1221	0.5	0.5	0.2	ug/L	0.20 U [0.2 U]	NA	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	NA	NA
Aroclor-1232	0.5	0.5	0.2	ug/L	0.40 U [0.4 U]	NA	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	NA	NA
Aroclor-1242	0.5	0.5	0.2	ug/L	0.20 U [0.2 U]	NA	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	NA	NA
Aroclor-1248	0.5	0.5	0.2	ug/L	0.20 U [0.2 U]	NA	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	NA	NA
Aroclor-1254	0.5	0.5	0.2	ug/L	0.20 U [0.2 U]	NA	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	NA	NA
Aroclor-1260	0.5	0.5	0.2	ug/L	0.20 U [0.2 U]	NA	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	NA	NA
PCBs-Filtered																	
Aroclor-1016 (PCB-1016) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	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	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	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	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	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	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	NA	NA	NA	NA
Volatile Organics																	
1,2,3-Trimethylbenzene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	260	750	19	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	2.6	11	2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	7.3	21	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	95	270	11,000	ug/L	NA	NA	NA	NA	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	NA	NA	NA	NA
Acetone	730	2,100	1,700	ug/L	NA	50 U [50 U]	10 U [20 U]	10 U [10 U]	NA	1.7 J [3 J]	NA	NA	1.9 J	NA	NA	NA	NA
Benzene	5	5	200	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
Bromobenzene	18	50	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	80	80	--	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
Bromoform	80	80	--	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
Bromomethane	10	29	35	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
2-Butanone	13,000	38,000	2,200	ug/L	NA	50 U [50 U]	10 U [20 U]	10 U [10 U]	NA	0.63 J [0.71 J]	NA	NA	25 U	NA	NA	NA	NA
n-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	800	2,300	--	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	5.0 U	NA	NA	NA	NA
Carbon Tetrachloride	5	5	45	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U*	NA	NA	NA	NA
CFC-11	2,600	7,300	--	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
CFC-12	1,700	4,800	--	ug/L	NA	10 U [10 U]	2.0 U [4 U]	2.0 U [2 U]	NA	2.0 U [2 U]	NA	NA	1.0 U	NA	NA	NA	NA
Chlorobenzene	100	100	25	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
Chlorobromomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorodibromomethane	80	80	--	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U*	NA	NA	NA	NA
Chloroethane	430	1,700	1,100	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
Chloroform	80	80	350	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
Chloromethane	260	1,100	--	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
Cyclohexane	--	--	--	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
Cymene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.2	0.2	--	ug/L	NA	10 U [10 U]	2.0 U [4 U]	2.0 U [2 U]	NA	2.0 U [2 U]	NA	NA	1.0 U	NA	NA	NA	NA
1,2-Dibromoethane	0.05	0.05	5.7	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
Dibromomethane	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	600	13	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
1,3-Dichlorobenzene	6.6	19	28	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
1,4-Dichlorobenzene	75	75	17	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
1,1-Dichloroethane	880	2,500	740	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
1,2-Dichloroethane	5	5	360	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
1,1-Dichloroethene	7	7	130	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
cis-1,2-Dichloroethene	70	70	620	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
trans-1,2-Dichloroethene	100	100	1,500	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
Dichloromethane	5	5	1,500	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	5.0 U	NA	NA	NA	NA
1,2-Dichloropropane	5	5	230	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
cis-1,3-Dichloropropene	--	--	--	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
trans-1,3-Dichloropropene	--	--	--	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U*	NA	NA	NA	NA
Diethyl Ether	10	10	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	7.2	350	2,800	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	74	74	18	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
Isopropylbenzene	800	2,300	28	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	5.0 U	NA	NA	NA	NA
Methyl acetate	--	--	--	ug/L	NA	50 U [50 U]	10 U [20 U]	10 U [10 U]	NA	10 U [10 U]	NA	NA	10 U	NA	NA	NA	NA
Methyl N-Butyl Ketone	1,000	2,900	--	ug/L	NA	50 U [50 U]	10 U [20 U]	10 U [10 U]	NA	10 U [10 U]	NA	NA	50 U	NA	NA	NA	NA

See Notes on last page.

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	MWW1-03	MWW1-03	MWW1-03	MWW1-03	MWW1-03	MWW1-03	MWW1-03	MWW1-03	MWW1-03	MWW1-15	MWW1-15	MWW1-15	MWW1-15
					05/04/07	05/04/07	11/07/07	05/07/08	05/07/08	11/06/08	11/06/08	11/06/08	08/21/13	02/07/07	03/22/07	10/05/07	11/14/07
Methylcyclohexane	--	--	--	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
4-Methyl-2-pentanone	1,800	5,200	--	ug/L	NA	50 U [50 U]	10 U [20 U]	10 U [10 U]	NA	10 U [10 U]	NA	NA	50 U	NA	NA	NA	NA
Methyl tert-butyl ether	40	40	7,100	ug/L	NA	25 U [25 U]	5.0 U [10 U]	5.0 U [5 U]	NA	5.0 U [5 U]	NA	NA	5.0 U	NA	NA	NA	NA
Naphthalene	520	1,500	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	100	80	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
1,1,1,2-Tetrachloroethane	77	320	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	8.5	35	78	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
Tetrachloroethene	5	5	60	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
Toluene	790	790	270	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
1,2,3-Trichlorobenzene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	70	99	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	89	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
1,1,2-Trichloroethane	5	5	330	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
Trichloroethene	5	5	200	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
1,2,3-Trichloropropane	42	120	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	170,000	170,000	32	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
1,2,4-Trimethylbenzene	63	63	17	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	72	72	45	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	2	2	13	ug/L	NA	5.0 U [5 U]	1.0 U [2 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
o-Xylene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	280	280	41	ug/L	NA	10 U [10 U]	2.0 U [4 U]	2.0 U [2 U]	NA	2.0 U [2 U]	NA	NA	2.0 U	NA	NA	NA	NA
Semivolatile Organics																	
1,1'-Biphenyl	--	--	--	ug/L	10 U [10 U]	NA	10 U [10 U]	10 U [10 U]	NA	NA	NA	10 U	0.97 U	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	--	--	--	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	0.97 U	NA	NA	NA	NA
2,4,5-Trichlorophenol	730	2,100	--	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
2,4,6-Trichlorophenol	120	470	5	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	3.9 U	NA	NA	NA	NA
2,4-Dichlorophenol	73	210	11	ug/L	10 U [10 U]	NA	10 U [10 U]	10 U [10 U]	NA	NA	NA	10 U	9.7 U	NA	NA	NA	NA
2,4-Dimethylphenol	370	1,000	380	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
2,4-Dinitrophenol	--	--	--	ug/L	20 U [20 U]	NA	20 U [20 U]	20 U [20 U]	NA	NA	NA	20 U	19 U	NA	NA	NA	NA
2,4-Dinitrotoluene	7.7	32	--	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
2,6-Dinitrotoluene	--	--	--	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
2-Chloronaphthalene	1,800	5,200	--	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
2-Chlorophenol	45	130	18	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
2-Methylnaphthalene	260	750	19	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
2-Methylphenol	--	--	--	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
2-Nitroaniline	--	--	--	ug/L	20 U [20 U]	NA	20 U [20 U]	20 U [20 U]	NA	NA	NA	20 U	19 U	NA	NA	NA	NA
2-Nitrophenol	20	58	--	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
3,3'-Dichlorobenzidine	1.1	4.3	0.3	ug/L	20 U [20 U]	NA	20 U [20 U]	20 U [20 U]	NA	NA	NA	20 U	4.9 U	NA	NA	NA	NA
3-Nitroaniline	--	--	--	ug/L	20 U [20 U]	NA	20 U [20 U]	20 U [20 U]	NA	NA	NA	20 U	19 U	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	20	20	--	ug/L	20 U [20 U]	NA	20 U [20 U]	20 U [20 U]	NA	NA	NA	20 U	19 U	NA	NA	NA	NA
4-Bromophenyl-phenylether	--	--	--	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
4-Chloro-3-Methylphenol	150	420	7.4	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
4-Chloroaniline	--	--	--	ug/L	10 U [10 U]	NA	10 U [10 U]	10 U [10 U]	NA	NA	NA	10 U	1.9 U	NA	NA	NA	NA
4-Chlorophenyl-phenylether	--	--	--	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
4-Methylphenol	--	--	--	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
4-Nitroaniline	--	--	--	ug/L	20 U [20 U]	NA	20 U [20 U]	20 U [20 U]	NA	NA	NA	20 U	19 U	NA	NA	NA	NA
4-Nitrophenol	--	--	--	ug/L	20 U [20 U]	NA	20 U [20 U]	20 U [20 U]	NA	NA	NA	20 U	19 U	NA	NA	NA	NA
Acenaphthene	1,300	3,800	38	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
Acenaphthylene	52	150	--	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
Acetophenone	1,500	4,400	--	ug/L	10 U [10 U]	NA	10 U [10 U]	10 U [10 U]	NA	NA	NA	10 U	0.97 U	NA	NA	NA	NA
Anthracene	43	43	--	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
Atrazine	3	3	7.3	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	0.97 U	NA	NA	NA	NA
Benzaldehyde	--	--	--	ug/L	10 U [10 U]	NA	10 U [10 U]	10 U [10 U]	NA	NA	NA	10 U	0.97 U	NA	NA	NA	NA
Benzo(a)anthracene	2.1	8.5	--	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	0.97 U	NA	NA	NA	NA
Benzo(a)pyrene	5	5	--	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	0.97 U	NA	NA	NA	NA
Benzo(b)fluoranthene	1.5	1.5	--	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	0.97 U	NA	NA	NA	NA
Benzo(g,h,i)perylene	1	1	--	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	0.97 U	NA	NA	NA	NA
Benzo(k)fluoranthene	1	1	--	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	0.97 U	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	--	--	--	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
bis(2-Chloroethyl)ether	2	8.3	1	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	0.97 U	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	6	6	25	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	0.58 JB	NA	NA	NA	NA
Butylbenzylphthalate	1,200	2,700	67	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
Caprolactam	5,800	17,000	--	ug/L	10 U [10 U]	NA	10 U [10 U]	10 U [10 U]	NA	NA	NA	10 U	4.9 U	NA	NA	NA	NA
Carbazole	85	350	10	ug/L	10 U [10 U]	NA	10 U [10 U]	10 U [10 U]	NA	NA	NA	10 U	9.7 U	NA	NA	NA	NA
Chrysene	1.6	1.6	--	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	0.97 U	NA	NA	NA	NA
Dibenzo(a,h)anthracene	2	2	--	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	1.9 U	NA	NA	NA	NA
Dibenzofuran	--	--	4	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	3.9 U	NA	NA	NA	NA

See Notes on last page.

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	MWW1-03 05/04/07 MWW1-03-GW-050407	MWW1-03 05/04/07 MWW1-03-GW-050407DL	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	MWW1-15 10/05/07 MWW1-15-GW-100507-FP	MWW1-15 11/14/07 MWW1-15-GW-111407
Diethylphthalate	5,500	16,000	110	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
Dimethylphthalate	73,000	210,000	--	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
Di-n-Butylphthalate	880	2,500	9.7	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
Di-n-Octylphthalate	130	380	--	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
Fluoranthene	210	210	1.6	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	0.97 U	NA	NA	NA	NA
Fluorene	880	2,000	12	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
Hexachlorobenzene	1	1	0.2	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	0.19 U	NA	NA	NA	NA
Hexachlorocyclopentadiene	50	50	--	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
Hexachloroethane	7.3	21	6.7	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	2	2	--	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	1.9 U	NA	NA	NA	NA
Isophorone	770	3,100	1,300	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
Nitrobenzene	3.4	9.6	180	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	2.9 U	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	5	5	--	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
N-Nitrosodiphenylamine	270	1,100	--	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
Pentachlorophenol	1	1	--	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
Phenanthrene	52	150	2	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	1.9 U	NA	NA	NA	NA
Phenol	4,400	13,000	450	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
Pyrene	140	140	--	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
Hexachloro-1,3-Butadiene	15	42	0.053	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	0.97 U	NA	NA	NA	NA
Naphthalene	520	1,500	11	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	NA	NA	5.0 U	4.9 U	NA	NA	NA	NA
Inorganics																	
Antimony	6	6	130	ug/L	25.0 U [25 U]	NA	10.2 J [2.7 J]	25.0 U [25 U]	NA	25.0 U [25 U]	NA	NA	0.15 J	NA	NA	NA	NA
Arsenic	10	10	10	ug/L	1.0 J [1.4 J]	NA	7.3 [5.4]	1.5 J [1.5 J]	NA	4.0 [4.3]	NA	NA	12 B	NA	NA	NA	NA
Barium	2,000	2,000	--	ug/L	335 [339]	NA	96.9 J [95 J]	240 J [249 J]	NA	96.1 J [93.9 J]	NA	NA	180 B	NA	NA	NA	NA
Beryllium	4	4	--	ug/L	1.0 U [1 U]	NA	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	0.24 JB	NA	NA	NA	NA
Cadmium	5	5	--	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	1.2 J [5 U]	NA	5.0 U [5 U]	NA	NA	0.50 U	NA	NA	NA	NA
Calcium	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	100	11	ug/L	10.0 U [10 U]	NA	10.0 U [10 U]	4.5 J [10 U]	NA	10.0 U [10 U]	NA	NA	0.45 JB	NA	NA	NA	NA
Cobalt	40	100	100	ug/L	20.0 U [20 U]	NA	20.0 U [20 U]	4.1 J [20 U]	NA	20.0 U [20 U]	NA	NA	1.2	NA	NA	NA	NA
Copper	1,000	1,000	--	ug/L	5.0 U [2.1 J]	NA	5.0 U [5 U]	5.6 [5 U]	NA	5.0 U [5 U]	NA	NA	1.6 JB	NA	NA	NA	NA
Cyanide (total)	--	--	--	ug/L	4.9 J [5.5 J]	NA	10 U [10 U]	5.3 B [5 B]	NA	10 U [10 U]	NA	NA	NA	NA	NA	NA	NA
Iron	300	300	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	4	4	--	ug/L	3.0 U [3 U]	NA	2.9 J [3 U]	3.0 U [3 U]	NA	3.0 U [3 U]	NA	NA	0.30 JB	NA	NA	NA	NA
Magnesium	400,000	1,100,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	50	--	ug/L	1,130 [1,130]	NA	425 J [434 J]	324 J [296 J]	NA	1,050 J [1,030 J]	NA	NA	990 B	NA	NA	NA	NA
Mercury	2	2	0.0013	ug/L	0.20 U [0.2 U]	NA	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	NA	NA
Nickel	100	100	--	ug/L	3.3 J [20 U]	NA	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	NA	NA
Selenium	50	50	5	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	5.0 U [5 U]	NA	5.0 U [5 U]	NA	NA	0.39 J	NA	NA	NA	NA
Silver	34	98	0.2	ug/L	5.0 U [5 U]	NA	5.0 U [5 U]	4.2 J [5 U]	NA	5.0 U [5 U]	NA	NA	0.20 U	NA	NA	NA	NA
Thallium	2	2	3.7	ug/L	1.0 U [1 U]	NA	1.0 U [1 U]	1.0 U [1 U]	NA	1.0 U [1 U]	NA	NA	1.0 U	NA	NA	NA	NA
Vanadium	4.5	62	27	ug/L	10.0 U [10 U]	NA	3.3 J [2.5 J]	4.0 J [10 U]	NA	10.0 U [10 U]	NA	NA	0.77 JB	NA	NA	NA	NA
Zinc	2,400	5,000	--	ug/L	20.0 U [20 U]	NA	5.0 J [20 U]	8.1 J [7.7 J]	NA	20.0 U [20 U]	NA	NA	7.9 JB	NA	NA	NA	NA
Inorganics-Filtered																	
Antimony (dissolved)	6	6	130	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	0.15 J	NA	NA	NA	NA
Arsenic (dissolved)	10	10	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	11 B	NA	NA	NA	NA
Barium (dissolved)	2,000	2,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	170 B	NA	NA	NA	NA
Beryllium (dissolved)	4	4	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	0.20 JB	NA	NA	NA	NA
Cadmium (dissolved)	5	5	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	NA	NA	NA	NA
Chromium (dissolved)	100	100	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	0.28 JB	NA	NA	NA	NA
Cobalt (dissolved)	40	100	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	1.1	NA	NA	NA	NA
Copper (dissolved)	1,000	1,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	1.4 JB	NA	NA	NA	NA
Iron (dissolved)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (dissolved)	4	4	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	0.42 JB	NA	NA	NA	NA
Manganese (dissolved)	50	50	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	930 B	NA	NA	NA	NA
Mercury (dissolved)	--	--	0.0013	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	0.20 U	NA	NA	NA	NA
Nickel (dissolved)	100	100	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	4.7 B	NA	NA	NA	NA
Selenium (dissolved)	50	50	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	0.68 J	NA	NA	NA	NA
Silver (dissolved)	34	98	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	0.20 U	NA	NA	NA	NA
Thallium (dissolved)	2	2	3.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA
Vanadium (dissolved)	4.5	62	27	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	0.71 JB	NA	NA	NA	NA
Zinc (dissolved)	2,400	5,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA
Miscellaneous																	
Alkalinity, total (as CaCO3)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	--	--	--	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.5 J
Total Dissolved Solids	500,000	500,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field																	

See Notes on last page.

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	MWW1-03 05/04/07 MWW1-03-GW-050407	MWW1-03 05/04/07 MWW1-03-GW-050407DL	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	MWW1-15 10/05/07 MWW1-15-GW-100507-FP	MWW1-15 11/14/07 MWW1-15-GW-111407
Conductivity, field	--	--	--	mS/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.7	NA	1.302
Conductivity, field	--	--	--	umhos/cm	6,340	NA	2.71	NA	4.27	NA	1.412	NA	NA	1.83	NA	1.275	NA
Dissolved oxygen (DO), field	--	--	--	ug/L	320	NA	3,080	NA	1,630	NA	160	NA	NA	140	160	100	170
Oxidation reduction potential (ORP), field	--	--	--	millivolts	-118.0	NA	-78.0	NA	-54.0	NA	NA	NA	NA	-126.0	-171.0	-164.0	20
Temperature, ambient	--	--	--	deg f	NA	NA	40	NA	65	NA	60	NA	NA	NA	55	85	50
Temperature, field	--	--	--	deg c	13.63	NA	13.16	NA	15.62	NA	12.08	NA	NA	5.55	9.63	21.25	16.28
Turbidity (field)	--	--	--	NTU	4.22	NA	4.8	NA	NA	NA	1.41	NA	NA	1.2	4.63	3.04	4
Dioxins/Furans																	
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	--	pg/L	4.8 U [5.1 U]	NA	9.7 U [7.7 U]	3.7 U [7.3 U]	NA	4.2 U [5.1 U]	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	--	--	--	pg/L	6.8 U [7.5 U]	NA	11 U [7.6 U]	4.8 U [6.7 U]	NA	6.0 U [5.3 U]	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDD	--	--	--	pg/L	3.3 U [1.9 U]	NA	5.6 U [4.8 U]	2.0 U [4.4 U]	NA	4.9 U [4.3 U]	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	--	--	--	pg/L	2.3 U [1.8 U]	NA	5.4 U [2.9 U]	1.8 U [3.3 U]	NA	2.2 U [2.6 U]	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	--	--	--	pg/L	3.0 U [2.3 U]	NA	6.3 U [3.4 U]	2.2 U [4.1 U]	NA	2.5 U [3.1 U]	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDD	--	--	--	pg/L	6.8 U [6.9 U]	NA	6.9 U [4.6 U]	2.1 U [4.5 U]	NA	4.0 U [4.4 U]	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDF	--	--	--	pg/L	4.2 U [4.8 U]	NA	4.4 U [2.9 U]	1.4 U [2.2 U]	NA	2.9 U [3.4 U]	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDD	--	--	--	pg/L	4.8 U [4.9 U]	NA	7.4 U [5 U]	2.0 U [3.8 U]	NA	3.5 U [3.9 U]	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDF	--	--	--	pg/L	3.6 U [4.2 U]	NA	4.3 U [2.9 U]	1.3 U [1.9 U]	NA	2.5 U [2.9 U]	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDD	--	--	--	pg/L	5.3 U [5.5 U]	NA	5.7 U [3.8 U]	1.8 U [4 U]	NA	3.5 U [3.9 U]	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDF	--	--	--	pg/L	5.1 U [5.9 U]	NA	4.5 U [3 U]	1.5 U [2.5 U]	NA	2.9 U [3.4 U]	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDD	--	--	--	pg/L	4.0 U [4.5 U]	NA	9.7 U [6.6 U]	3.0 U [4.6 U]	NA	5.3 U [5.3 U]	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDF	--	--	--	pg/L	2.8 U [2.3 U]	NA	5.8 U [4.3 U]	1.9 U [2.5 U]	NA	3.9 U [4 U]	NA	NA	NA	NA	NA	NA	NA
2,3,4,6,7,8-HxCDF	--	--	--	pg/L	4.4 U [5 U]	NA	4.5 U [3 U]	1.3 U [2.2 U]	NA	2.8 U [3.2 U]	NA	NA	NA	NA	NA	NA	NA
2,3,4,7,8-PeCDF	--	--	--	pg/L	2.6 U [2.2 U]	NA	6.0 U [4.4 U]	2.0 U [2.6 U]	NA	4.1 U [4.2 U]	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD	30	30	10	pg/L	1.9 U [2.3 U]	NA	5.0 U [3.2 U]	1.4 U [2.4 U]	NA	3.3 U [3.8 U]	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDF	--	--	--	pg/L	2.2 U [4.9 U]	NA	3.7 U [2.6 U]	1.1 U [1.7 U]	NA	2.3 U [2.4 U]	NA	NA	NA	NA	NA	NA	NA
Total heptachlorodibenzofuran (HpCDF)	--	--	--	pg/L	3.0 U [2.3 U]	NA	6.3 U [3.4 U]	2.2 U [4.1 U]	NA	2.5 U [3.1 U]	NA	NA	NA	NA	NA	NA	NA
Total heptachlorodibenzo-p-dioxin (HpCDD)	--	--	--	pg/L	3.3 U [1.9 U]	NA	5.6 U [4.8 U]	2.0 U [4.4 U]	NA	4.9 U [4.3 U]	NA	NA	NA	NA	NA	NA	NA
Total hexachlorodibenzofuran (HxCDF)	--	--	--	pg/L	5.1 U [5.9 U]	NA	4.5 U [3 U]	1.5 U [2.5 U]	NA	2.9 U [3.4 U]	NA	NA	NA	NA	NA	NA	NA
Total hexachlorodibenzo-p-dioxin (HxCDD)	--	--	--	pg/L	6.8 U [6.9 U]	NA	7.4 U [5 U]	2.1 U [4.5 U]	NA	4.0 U [4.4 U]	NA	NA	NA	NA	NA	NA	NA
Total pentachlorodibenzofuran (PeCDF)	--	--	--	pg/L	4.1 U [2.3 U]	NA	6.1 U [4.6 U]	2.0 U [2.6 U]	NA	4.1 U [4.2 U]	NA	NA	NA	NA	NA	NA	NA
Total pentachlorodibenzo-p-dioxin (PeCDD)	--	--	--	pg/L	4.0 U [4.5 U]	NA	9.7 U [6.6 U]	3.0 U [4.6 U]	NA	5.3 U [5.3 U]	NA	NA	NA	NA	NA	NA	NA
Total TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzofuran (TCDF)	--	--	--	pg/L	13 J [4.9 U]	NA	3.7 U [2.6 U]	1.1 U [1.7 U]	NA	2.3 U [2.4 U]	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzo-p-dioxin (TCDD)	--	--	--	pg/L	1.9 U [2.3 U]	NA	5.0 U [3.2 U]	1.4 U [2.4 U]	NA	3.3 U [3.8 U]	NA	NA	NA	NA	NA	NA	NA

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	MWW01-SEN02 10/03/12 MWW10-SEN02	MWW01-SEN02 02/19/13 MWW10-SEN02_021913	MWW01-SEN02 06/26/13 MWW10-SEN02_062613	MWW01-SEN02 12/04/13 MWW10-SEN02_20131204	MWW01-SEN02 09/20/16 MWW10-SEN02_092016	MWW01-SEN02 04/26/17 MWW10-SEN02_GW-042617	MWW01-SEN02 10/26/17 MWW10-SEN02_GW-102617	MWW01-SEN03 02/19/13 MWW01-SEN03_021913	MWW01-SEN03 06/25/13 MWW01-SEN03_062513	MWW01-SEN03 12/03/13 MWW10-SEN03_20131203	MWW01-SEN03 05/18/16 MWW10-SEN03-GW-051816	MWW01-SEN03 09/21/16 MWW10-SEN03_092116
PCBs																
Aroclor-1016	0.5	0.5	0.2	ug/L	0.095 U	NA	0.095 U	0.096 U	NA	NA	NA	0.095 U	0.10 U	0.096 U	NA	NA
Aroclor-1221	0.5	0.5	0.2	ug/L	0.095 U	NA	0.095 U	0.096 U	NA	NA	NA	0.095 U	0.10 U	0.096 U	NA	NA
Aroclor-1232	0.5	0.5	0.2	ug/L	0.095 U	NA	0.095 U	0.096 U	NA	NA	NA	0.095 U	0.10 U	0.096 U	NA	NA
Aroclor-1242	0.5	0.5	0.2	ug/L	0.095 U	NA	0.095 U	0.096 U	NA	NA	NA	0.095 U	0.10 U	0.096 U	NA	NA
Aroclor-1248	0.5	0.5	0.2	ug/L	0.095 U	NA	0.095 U	0.096 U	NA	NA	NA	0.095 U	0.10 U	0.096 U	NA	NA
Aroclor-1254	0.5	0.5	0.2	ug/L	0.095 U	NA	0.095 U	0.096 U	NA	NA	NA	0.095 U	0.10 U	0.096 U	NA	NA
Aroclor-1260	0.5	0.5	0.2	ug/L	0.095 U	NA	0.095 U	0.096 U	NA	NA	NA	0.095 U	0.10 U	0.096 U	NA	NA
PCBs-Filtered																
Aroclor-1016 (PCB-1016) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	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	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	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	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	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	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	NA	NA	NA
Volatile Organics																
1,2,3-Trimethylbenzene	--	--	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	1 U
2-Methylnaphthalene	260	750	19	ug/L	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA	5 U
Acrylonitrile	2.6	11	2	ug/L	NA	NA	NA	NA	2 U	NA	NA	NA	NA	NA	NA	2 U
Hexachloroethane	7.3	21	6.7	ug/L	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA	5 U
Iodomethane	--	--	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	1 U
m&p-Xylene	--	--	--	ug/L	NA	NA	NA	NA	2 U	2 U	2 U	NA	NA	NA	NA	2 U
Tetrahydrofuran	95	270	11,000	ug/L	NA	NA	NA	NA	90 U	NA	NA	NA	NA	NA	NA	90 U
trans-1,4-Dichloro-2-butene	--	--	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	1 U
Acetone	730	2,100	1,700	ug/L	25 U	25 U	25 U	25 U	50 U	50 U	50 U	5.5 J	8.8 J	3.1 J	19 J	50 U
Benzene	5	5	200	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	0.82 J	0.89 J	0.71 J	0.77 J	1
Bromobenzene	18	50	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	1 U
Bromodichloromethane	80	80	--	ug/L	1.6	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
Bromoform	80	80	--	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
Bromomethane	10	29	35	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U
2-Butanone	13,000	38,000	2,200	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	1.6 J	1.7 J	0.89 J	1.8 J	25 U
n-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	1 U
sec-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	1 U
tert-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	1 U
Carbon Disulfide	800	2,300	--	ug/L	0.13 J	5.0 U	5.0 U	0.43 J	5 U	5 U	5 U	0.15 J	5.0 U	3.5 J	5.0 U	5 U
Carbon Tetrachloride	5	5	45	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
CFC-11	2,600	7,300	--	ug/L	1.0 U	1.0 U*	1.0 U	1.0 U	1 U	1 U	1 U	1.0 U*	1.0 U	1.0 U	1.0 U	1 U
CFC-12	1,700	4,800	--	ug/L	1.0 U	1.0 U*	1.0 U	1.0 U	5 U	5 U	5 U	1.0 U*	1.0 U	1.0 U	1.0 U	5 U
Chlorobenzene	100	100	25	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
Chlorobromomethane	--	--	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	1 U
Chlorodibromomethane	80	80	--	ug/L	0.53 J	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U
Chloroethane	430	1,700	1,100	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U
Chloroform	80	80	350	ug/L	10	0.16 J	1.0 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
Chloromethane	260	1,100	--	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U
Cyclohexane	--	--	--	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	NA	1 U	1 U	1.1	1.0	1.2	0.87 J	NA
Cymene	--	--	--	ug/L	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA	5 U
1,2-Dibromo-3-chloropropane	0.2	0.2	--	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U
1,2-Dibromoethane	0.05	0.05	5.7	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
Dibromomethane	80	230	--	ug/L	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA	5 U
1,2-Dichlorobenzene	600	600	13	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
1,3-Dichlorobenzene	6.6	19	28	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
1,4-Dichlorobenzene	75	75	17	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
1,1-Dichloroethane	880	2,500	740	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
1,2-Dichloroethane	5	5	360	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
1,1-Dichloroethene	7	7	130	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
cis-1,2-Dichloroethene	70	70	620	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
trans-1,2-Dichloroethene	100	100	1,500	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
Dichloromethane	5	5	1,500	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U	0.44 J	5.0 U	5.0 U	5.0 U	5 U
1,2-Dichloropropane	5	5	230	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
cis-1,3-Dichloropropene	--	--	--	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
trans-1,3-Dichloropropene	--	--	--	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
Diethyl Ether	10	10	--	ug/L	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	10 U
1,4-Dioxane	7.2	350	2,800	ug/L	NA	NA	NA	NA	14	16	11	NA	NA	NA	NA	10
Ethylbenzene	74	74	18	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
Isopropylbenzene	800	2,300	28	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5 U	1 U	1 U	5.0 U	5.0 U	5.0 U	5.0 U	5 U
Methyl acetate	--	--	--	ug/L	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	NA
Methyl N-Butyl Ketone	1,000	2,900	--	ug/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U

See Notes on last page.

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	MWW01-SEN02 10/03/12	MWW01-SEN02 02/19/13	MWW01-SEN02 06/26/13	MWW01-SEN02 12/04/13	MWW01-SEN02 09/20/16	MWW01-SEN02 04/26/17	MWW01-SEN02 10/26/17	MWW01-SEN03 02/19/13	MWW01-SEN03 06/25/13	MWW01-SEN03 12/03/13	MWW01-SEN03 05/18/16	MWW01-SEN03 09/21/16
					MWW10-SEN02	MWW10-SEN02_021913	MWW10-SEN02_062613	MWW10-SEN02_20131204	MWW10-SEN02_092016	MWW10-SEN02_GW-042617	MWW10-SEN02_GW-102617	MWW01-SEN03_021913	MWW01-SEN03_062513	MWW10-SEN03_20131203	MWW10-SEN03-GW-051816	MWW10-SEN03_092116
Methylcyclohexane	--	--	--	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	NA	1 U	1 U	1 U	1 U	1.4	1.1	NA
4-Methyl-2-pentanone	1,800	5,200	--	ug/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U	2.3 J	1.4 J	0.83 J	3.1 J	50 U
Methyl tert-butyl ether	40	40	7,100	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5 U
Naphthalene	520	1,500	11	ug/L	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA	5 U
n-Propylbenzene	80	230	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	1 U
Styrene	100	100	80	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
1,1,1,2-Tetrachloroethane	77	320	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	1 U
1,1,2,2-Tetrachloroethane	8.5	35	78	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
Tetrachloroethene	5	5	60	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
Toluene	790	790	270	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	0.14 J	0.19 J	0.23 J	1.0 U	1 U
1,2,3-Trichlorobenzene	--	--	--	ug/L	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA	5 U
1,2,4-Trichlorobenzene	70	70	99	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U
1,1,1-Trichloroethane	200	200	89	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
1,1,2-Trichloroethane	5	5	330	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
Trichloroethene	5	5	200	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
1,2,3-Trichloropropane	42	120	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	1 U
1,1,2-trichloro-1,2,2-trifluoroethane	170,000	170,000	32	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	NA	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,2,4-Trimethylbenzene	63	63	17	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	1 U
1,3,5-Trimethylbenzene	72	72	45	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	1 U
Vinyl Chloride	2	2	13	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
o-Xylene	--	--	--	ug/L	NA	NA	NA	NA	1 U	1 U	1 U	NA	NA	NA	NA	1 U
Total Xylenes	280	280	41	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	2.0 U	2.0 U	2.0 U	2.0 U	NA
Semivolatile Organics																
1,1'-Biphenyl	--	--	--	ug/L	0.95 U	NA	0.95 U	9.6 U	NA	NA	NA	19 U	9.5 U	46 U	NA	NA
2,2'-Oxybis(1-Chloropropane)	--	--	--	ug/L	0.95 U	NA	0.95 U	9.6 U	NA	NA	NA	19 U	9.5 U	46 U	NA	NA
2,4,5-Trichlorophenol	730	2,100	--	ug/L	4.8 U	NA	4.8 U	48 U	NA	NA	NA	96 U	48 U	230 U	NA	NA
2,4,6-Trichlorophenol	120	470	5	ug/L	3.8 U	NA	3.8 U	38 U	NA	NA	NA	77 U	38 U	190 U	NA	NA
2,4-Dichlorophenol	73	210	11	ug/L	9.5 U	NA	9.5 U	96 U	NA	NA	NA	190 U	95 U	460 U	NA	NA
2,4-Dimethylphenol	370	1,000	380	ug/L	4.8 U	NA	4.8 U	48 U	NA	NA	NA	96 U	48 U	230 U	NA	NA
2,4-Dinitrophenol	--	--	--	ug/L	19 U	NA	19 U	190 U	NA	NA	NA	380 U	190 U	930 U	NA	NA
2,4-Dinitrotoluene	7.7	32	--	ug/L	4.8 U	NA	4.8 U	48 U	NA	NA	NA	96 U	48 U	230 U	NA	NA
2,6-Dinitrotoluene	--	--	--	ug/L	4.8 U	NA	4.8 U	48 U	NA	NA	NA	96 U	48 U	230 U	NA	NA
2-Chloronaphthalene	1,800	5,200	--	ug/L	4.8 U	NA	4.8 U	48 U	NA	NA	NA	96 U	48 U	230 U	NA	NA
2-Chlorophenol	45	130	18	ug/L	4.8 U	NA	4.8 U	48 U	NA	NA	NA	96 U	48 U	230 U	NA	NA
2-Methylnaphthalene	260	750	19	ug/L	0.30 J	NA	4.8 U	48 U	NA	NA	NA	96 U	48 U	230 U	NA	NA
2-Methylphenol	--	--	--	ug/L	4.8 U	NA	4.8 U	48 U	NA	NA	NA	96 U	48 U	230 U	NA	NA
2-Nitroaniline	--	--	--	ug/L	19 U	NA	19 U	190 U	NA	NA	NA	380 U	190 U	930 U	NA	NA
2-Nitrophenol	20	58	--	ug/L	4.8 U	NA	4.8 U	48 U	NA	NA	NA	96 U	48 U	230 U	NA	NA
3,3'-Dichlorobenzidine	1.1	4.3	0.3	ug/L	4.8 U	NA	4.8 U	48 U	NA	NA	NA	96 U	48 U	230 U	NA	NA
3-Nitroaniline	--	--	--	ug/L	19 U	NA	19 U	190 U	NA	NA	NA	380 U	190 U	930 U	NA	NA
4,6-Dinitro-2-methylphenol	20	20	--	ug/L	19 U	NA	19 U	190 U	NA	NA	NA	380 U	190 U	930 U	NA	NA
4-Bromophenyl-phenylether	--	--	--	ug/L	4.8 U	NA	4.8 U	48 U	NA	NA	NA	96 U	48 U	230 U	NA	NA
4-Chloro-3-Methylphenol	150	420	7.4	ug/L	4.8 U	NA	4.8 U	48 U	NA	NA	NA	96 U	48 U	230 U	NA	NA
4-Chloroaniline	--	--	--	ug/L	1.9 U	NA	1.9 U	19 U	NA	NA	NA	38 U	19 U	93 U	NA	NA
4-Chlorophenyl-phenylether	--	--	--	ug/L	4.8 U	NA	4.8 U	48 U	NA	NA	NA	96 U	48 U	230 U	NA	NA
4-Methylphenol	--	--	--	ug/L	4.8 U	NA	4.8 U	48 U	NA	NA	NA	96 U	48 U	230 U	NA	NA
4-Nitroaniline	--	--	--	ug/L	19 U	NA	19 U	190 U	NA	NA	NA	380 U	190 U	930 U	NA	NA
4-Nitrophenol	--	--	--	ug/L	19 U	NA	19 U	190 U	NA	NA	NA	380 U	190 U	930 U	NA	NA
Acenaphthene	1,300	3,800	38	ug/L	4.8 U	NA	4.8 U	48 U	NA	NA	NA	96 U	48 U	230 U	NA	NA
Acenaphthylene	52	150	--	ug/L	4.8 U	NA	4.8 U	48 U	NA	NA	NA	96 U	48 U	230 U	NA	NA
Acetophenone	1,500	4,400	--	ug/L	0.95 U	NA	0.95 U	9.6 U	NA	NA	NA	19 U	9.5 U	46 U	NA	NA
Anthracene	43	43	--	ug/L	4.8 U	NA	4.8 U	48 U	NA	NA	NA	96 U	48 U	230 U	NA	NA
Atrazine	3	3	7.3	ug/L	0.95 U	NA	0.95 U	9.6 U	NA	NA	NA	19 U	9.5 U	46 U	NA	NA
Benzaldehyde	--	--	--	ug/L	0.95 U	NA	0.95 U	9.6 U	NA	NA	NA	19 U*	9.5 U	46 U	NA	NA
Benzo(a)anthracene	2.1	8.5	--	ug/L	0.95 U	NA	0.95 U	9.6 U	NA	NA	NA	19 U	9.5 U	46 U	NA	NA
Benzo(a)pyrene	5	5	--	ug/L	0.95 U	NA	0.95 U	9.6 U	NA	NA	NA	19 U	9.5 U	46 U	NA	NA
Benzo(b)fluoranthene	1.5	1.5	--	ug/L	0.95 U	NA	0.95 U	9.6 U	NA	NA	NA	19 U	9.5 U	46 U	NA	NA
Benzo(g,h,i)perylene	1	1	--	ug/L	0.95 U	NA	0.95 U	9.6 U	NA	NA	NA	19 U	9.5 U	46 U	NA	NA
Benzo(k)fluoranthene	1	1	--	ug/L	0.95 U	NA	0.95 U	9.6 U	NA	NA	NA	19 U	9.5 U	46 U	NA	NA
bis(2-Chloroethoxy)methane	--	--	--	ug/L	4.8 U	NA	4.8 U	48 U	NA	NA	NA	96 U	48 U	230 U	NA	NA
bis(2-Chloroethyl)ether	2	8.3	1	ug/L	0.95 U	NA	0.95 U	9.6 U	NA	NA	NA	19 U	9.5 U	46 U	NA	NA
bis(2-Ethylhexyl)phthalate	6	6	25	ug/L	2.1 J	NA	0.84 JB	48 U	NA	NA	NA	96 U	48 U	230 U	NA	NA
Butylbenzylphthalate	1,200	2,700	67	ug/L	4.8 U	NA	4.8 U	48 U	NA	NA	NA	96 U	48 U	230 U	NA	NA
Caprolactam	5,800	17,000	--	ug/L	4.8 U	NA	4.8 U	0.98 J	NA	NA	NA	96 U	48 U	230 U	NA	NA
Carbazole	85	350	10	ug/L	9.5 U	NA	9.5 U	96 U	NA	NA	NA	190 U	95 U	460 U	NA	NA
Chrysene	1.6	1.6	--	ug/L	0.95 U	NA	0.95 U	9.6 U	NA	NA	NA	19 U	9.5 U	46 U	NA	NA
Dibenzo(a,h)anthracene	2	2	--	ug/L	1.9 U	NA	1.9 U	19 U	NA	NA	NA	38 U	19 U	93 U	NA	NA
Dibenzofuran	--	--	4	ug/L	3.8 U	NA	3.8 U	38 U	NA	NA	NA	77 U	38 U	190 U	NA	NA

See Notes on last page.

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	MWW01-SEN02 10/03/12	MWW01-SEN02 02/19/13	MWW01-SEN02 06/26/13	MWW01-SEN02 12/04/13	MWW01-SEN02 09/20/16	MWW01-SEN02 04/26/17	MWW01-SEN02 10/26/17	MWW01-SEN03 02/19/13	MWW01-SEN03 06/25/13	MWW01-SEN03 12/03/13	MWW01-SEN03 05/18/16	MWW01-SEN03 09/21/16
					MWW10-SEN02	MWW10-SEN02_021913	MWW10-SEN02_062613	MWW10-SEN02_20131204	MWW10-SEN02_092016	MWW10-SEN02_GW-042617	MWW10-SEN02_GW-102617	MWW01-SEN03_021913	MWW01-SEN03_062513	MWW10-SEN03_20131203	MWW10-SEN03-GW-051816	MWW10-SEN03_092116
Diethylphthalate	5,500	16,000	110	ug/L	4.8 U	NA	4.8 U	48 U	NA	NA	NA	96 U	48 U	230 U	NA	NA
Dimethylphthalate	73,000	210,000	--	ug/L	4.8 U	NA	4.8 U	48 U	NA	NA	NA	96 U	48 U	230 U	NA	NA
Di-n-Butylphthalate	880	2,500	9.7	ug/L	4.8 U	NA	4.8 U	48 UB	NA	NA	NA	96 U	48 U	230 U	NA	NA
Di-n-Octylphthalate	130	380	--	ug/L	4.8 U	NA	4.8 U	48 U	NA	NA	NA	96 U	48 U	230 U	NA	NA
Fluoranthene	210	210	1.6	ug/L	0.95 U	NA	0.95 U	9.6 U	NA	NA	NA	19 U	9.5 U	46 U	NA	NA
Fluorene	880	2,000	12	ug/L	4.8 U	NA	4.8 U	48 U	NA	NA	NA	96 U	48 U	230 U	NA	NA
Hexachlorobenzene	1	1	0.2	ug/L	0.19 U	NA	0.19 U	1.9 U	NA	NA	NA	3.8 U	1.9 U	9.3 U	NA	NA
Hexachlorocyclopentadiene	50	50	--	ug/L	4.8 U	NA	4.8 U	48 U	NA	NA	NA	96 U*	48 U	230 U	NA	NA
Hexachloroethane	7.3	21	6.7	ug/L	4.8 U	NA	4.8 U	48 UJ	NA	NA	NA	96 U	48 U	230 UJ	NA	NA
Indeno(1,2,3-cd)pyrene	2	2	--	ug/L	1.9 U	NA	1.9 U	19 U	NA	NA	NA	38 U	19 U	93 U	NA	NA
Isophorone	770	3,100	1,300	ug/L	4.8 U	NA	4.8 U	48 U	NA	NA	NA	96 U	48 U	230 U	NA	NA
Nitrobenzene	3.4	9.6	180	ug/L	2.9 U	NA	2.9 U	29 U	NA	NA	NA	58 U	29 U	140 U	NA	NA
N-Nitroso-di-n-propylamine	5	5	--	ug/L	4.8 U	NA	4.8 U	48 U	NA	NA	NA	96 U	48 U	230 U	NA	NA
N-Nitrosodiphenylamine	270	1,100	--	ug/L	4.8 U	NA	4.8 U	48 U	NA	NA	NA	96 U	48 U	230 U	NA	NA
Pentachlorophenol	1	1	--	ug/L	4.8 U	NA	4.8 U	48 U	NA	NA	NA	96 U	48 U	230 U	NA	NA
Phenanthrene	52	150	2	ug/L	1.9 U	NA	1.9 U	19 U	NA	NA	NA	38 U	19 U	93 U	NA	NA
Phenol	4,400	13,000	450	ug/L	4.8 U	NA	4.8 U	48 U	NA	NA	NA	96 U	48 U	230 U	NA	NA
Pyrene	140	140	--	ug/L	4.8 U	NA	4.8 U	48 U	NA	NA	NA	96 U	48 U	230 U	NA	NA
Hexachloro-1,3-Butadiene	15	42	0.053	ug/L	0.95 U	NA	0.95 U	9.6 UJ	NA	NA	NA	19 U	9.5 U	46 UJ	NA	NA
Naphthalene	520	1,500	11	ug/L	2.2 J	NA	4.8 U	48 U	NA	NA	NA	96 U	48 U	230 U	NA	NA
Inorganics																
Antimony	6	6	130	ug/L	NA	NA	2.0 U	NA	NA	NA	NA	1.7 J	0.43 J	NA	NA	NA
Arsenic	10	10	10	ug/L	10	NA	0.61 JB	1.4 J	NA	NA	NA	3.2	2.9 B	2.7 J	NA	NA
Barium	2,000	2,000	--	ug/L	220 B	NA	79 B	86 J	NA	NA	NA	57 B	61 B	65 J	NA	NA
Beryllium	4	4	--	ug/L	NA	NA	0.096 J	NA	NA	NA	NA	0.15 J	0.12 J	NA	NA	NA
Cadmium	5	5	--	ug/L	0.19 J	NA	0.50 U	0.047 J	NA	NA	NA	0.50 U	0.17 J	0.097 J	NA	NA
Calcium	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	100	11	ug/L	51	NA	3.7 B	21 J	NA	NA	NA	23	12 B	8.5 J	NA	NA
Cobalt	40	100	100	ug/L	NA	NA	1.7 B	NA	NA	NA	NA	2.3 B	2.3 B	NA	NA	NA
Copper	1,000	1,000	--	ug/L	NA	NA	26 B	NA	NA	NA	NA	18	13 B	NA	NA	NA
Cyanide (total)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	300	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	4	4	--	ug/L	16	NA	0.52 JB	1.2 J	NA	NA	NA	6.4 B	7.5 B	3.4 J	NA	NA
Magnesium	400,000	1,100,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	50	--	ug/L	NA	NA	640 B	NA	NA	NA	NA	160 B	130 B	NA	NA	NA
Mercury	2	2	0.0013	ug/L	0.20 U	NA	0.20 U	0.20 U	NA	NA	NA	0.20 U	0.20 U	0.20 U	NA	NA
Nickel	100	100	--	ug/L	NA	NA	210 B	NA	NA	NA	NA	21	12 B	NA	NA	NA
Selenium	50	50	5	ug/L	1.1 J	NA	0.93 J	2.0 U	NA	NA	NA	0.89 J	1.0 J	2.0 U	NA	NA
Silver	34	98	0.2	ug/L	0.20 U	NA	0.20 U	0.20 U	NA	NA	NA	0.20 U	0.013 JB	0.010 J	NA	NA
Thallium	2	2	3.7	ug/L	NA	NA	1.0 U	NA	NA	NA	NA	0.019 J	1.0 U	NA	NA	NA
Vanadium	4.5	62	27	ug/L	NA	NA	0.60 JB	NA	NA	NA	NA	3.9 J	2.4 JB	NA	NA	NA
Zinc	2,400	5,000	--	ug/L	NA	NA	5.5 JB	NA	NA	NA	NA	25	16 B	NA	NA	NA
Inorganics-Filtered																
Antimony (dissolved)	6	6	130	ug/L	NA	NA	NA	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	NA	NA	NA
Barium (dissolved)	2,000	2,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (dissolved)	4	4	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (dissolved)	5	5	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (dissolved)	100	100	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (dissolved)	40	100	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (dissolved)	1,000	1,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron (dissolved)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (dissolved)	4	4	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (dissolved)	50	50	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (dissolved)	--	--	0.0013	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (dissolved)	100	100	--	ug/L	NA	NA	NA	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	NA	NA	NA
Silver (dissolved)	34	98	0.2	ug/L	NA	NA	NA	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	NA	NA	NA
Vanadium (dissolved)	4.5	62	27	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (dissolved)	2,400	5,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous																
Alkalinity, total (as CaCO3)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	--	--	--	none	NA	NA	NA	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	NA	NA	NA
Total Suspended Solids	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field																

See Notes on last page.

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	MWW01-SEN02 10/03/12 MWW10-SEN02	MWW01-SEN02 02/19/13 MWW10-SEN02_021913	MWW01-SEN02 06/26/13 MWW10-SEN02_062613	MWW01-SEN02 12/04/13 MWW10-SEN02_20131204	MWW01-SEN02 09/20/16 MWW10-SEN02_092016	MWW01-SEN02 04/26/17 MWW10-SEN02_GW-042617	MWW01-SEN02 10/26/17 MWW10-SEN02_GW-102617	MWW01-SEN03 02/19/13 MWW01-SEN03_021913	MWW01-SEN03 06/25/13 MWW01-SEN03_062513	MWW01-SEN03 12/03/13 MWW10-SEN03_20131203	MWW01-SEN03 05/18/16 MWW10-SEN03-GW-051816	MWW01-SEN03 09/21/16 MWW10-SEN03_092116
Conductivity, field	--	--	--	mS/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity, field	--	--	--	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved oxygen (DO), field	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation reduction potential (ORP), field	--	--	--	millivolts	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, ambient	--	--	--	deg f	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, field	--	--	--	deg c	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity (field)	--	--	--	NTU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans																
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	--	pg/L	NA	NA	95 U	NA	NA	NA	NA	3.1 JBq	96 U	NA	NA	NA
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	--	--	--	pg/L	NA	NA	13 JB	NA	NA	NA	NA	170 B	80 Jq	NA	NA	NA
1,2,3,4,6,7,8-HpCDD	--	--	--	pg/L	NA	NA	1.1 JB	NA	NA	NA	NA	8.6 JB	4.1 Jq	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	--	--	--	pg/L	NA	NA	0.24 Jq	NA	NA	NA	NA	2.4 JBq	2.0 J	NA	NA	NA
1,2,3,4,7,8,9-HpCDD	--	--	--	pg/L	NA	NA	48 U	NA	NA	NA	NA	50 U	48 U	NA	NA	NA
1,2,3,4,7,8-HxCDD	--	--	--	pg/L	NA	NA	48 U	NA	NA	NA	NA	50 U	48 U	NA	NA	NA
1,2,3,6,7,8-HxCDF	--	--	--	pg/L	NA	NA	48 U	NA	NA	NA	NA	0.68 JBq	48 U	NA	NA	NA
1,2,3,6,7,8-HxCDF	--	--	--	pg/L	NA	NA	48 U	NA	NA	NA	NA	50 U	48 U	NA	NA	NA
1,2,3,7,8,9-HxCDD	--	--	--	pg/L	NA	NA	48 U	NA	NA	NA	NA	0.98 JB	48 U	NA	NA	NA
1,2,3,7,8,9-HxCDF	--	--	--	pg/L	NA	NA	48 U	NA	NA	NA	NA	50 U	48 U	NA	NA	NA
1,2,3,7,8-PeCDD	--	--	--	pg/L	NA	NA	48 U	NA	NA	NA	NA	50 U	48 U	NA	NA	NA
1,2,3,7,8-PeCDF	--	--	--	pg/L	NA	NA	48 U	NA	NA	NA	NA	50 U	48 U	NA	NA	NA
2,3,4,6,7,8-HxCDF	--	--	--	pg/L	NA	NA	48 U	NA	NA	NA	NA	50 U	48 U	NA	NA	NA
2,3,4,7,8-PeCDF	--	--	--	pg/L	NA	NA	48 U	NA	NA	NA	NA	50 U	48 U	NA	NA	NA
2,3,7,8-TCDD	30	30	10	pg/L	NA	NA	9.5 U	NA	NA	NA	NA	9.9 U	9.6 U	NA	NA	NA
2,3,7,8-TCDF	--	--	--	pg/L	NA	NA	9.5 U	NA	NA	NA	NA	9.9 U	9.6 U	NA	NA	NA
Total heptachlorodibenzofuran (HpCDF)	--	--	--	pg/L	NA	NA	0.24 Jq	NA	NA	NA	NA	6.6 JBq	4.2 Jq	NA	NA	NA
Total heptachlorodibenzo-p-dioxin (HpCDD)	--	--	--	pg/L	NA	NA	2.5 JBq	NA	NA	NA	NA	21 JBq	16 Jq	NA	NA	NA
Total hexachlorodibenzofuran (HxCDF)	--	--	--	pg/L	NA	NA	48 U	NA	NA	NA	NA	4.1 JBq	48 U	NA	NA	NA
Total hexachlorodibenzo-p-dioxin (HxCDD)	--	--	--	pg/L	NA	NA	48 U	NA	NA	NA	NA	9.8 JBq	2.9 J	NA	NA	NA
Total pentachlorodibenzofuran (PeCDF)	--	--	--	pg/L	NA	NA	48 U	NA	NA	NA	NA	50 U	48 U	NA	NA	NA
Total pentachlorodibenzo-p-dioxin (PeCDD)	--	--	--	pg/L	NA	NA	48 U	NA	NA	NA	NA	50 U	48 U	NA	NA	NA
Total TCDF	--	--	--	pg/L	NA	NA	9.5 U	NA	NA	NA	NA	NA	9.6 U	NA	NA	NA
Total tetrachlorodibenzofuran (TCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	9.9 U	NA	NA	NA	NA
Total tetrachlorodibenzo-p-dioxin (TCDD)	--	--	--	pg/L	NA	NA	9.5 U	NA	NA	NA	NA	1.0 J	9.6 U	NA	NA	NA

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	MWW01-SEN03 04/27/17 MWW10-SEN03_GW-042717	MWW01-SEN04 10/03/12 MWW01-SEN04	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-SEN05_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	MWW5-01 09/14/01 MWW5-01-GW(14-24)-N	MWW5-01 09/14/01 MWW5-01-GW14-24-N
PCBs																	
Aroclor-1016	0.5	0.5	0.2	ug/L	NA	0.096 U	0.095 U	0.096 U	0.48 U [R]	NA	NA	0.095 U	0.095 UH	0.095 U	0.096 U	0.054 U	NA
Aroclor-1221	0.5	0.5	0.2	ug/L	NA	0.096 U	0.095 U	0.096 U	0.48 U [R]	NA	NA	0.095 U	0.095 UH	0.095 U	0.096 U	0.11 U	NA
Aroclor-1232	0.5	0.5	0.2	ug/L	NA	0.096 U	0.095 U	0.096 U	0.48 U [R]	NA	NA	0.095 U	0.095 UH	0.095 U	0.096 U	0.056 U	NA
Aroclor-1242	0.5	0.5	0.2	ug/L	NA	0.096 U	0.095 U	0.096 U	0.48 U [R]	NA	NA	0.095 U	0.095 UH	0.095 U	0.096 U	0.075 U	NA
Aroclor-1248	0.5	0.5	0.2	ug/L	NA	1.9	0.59	0.32	6.8 J [15 J]	NA	NA	0.095 U	0.095 UH	0.095 U	0.096 U	0.061 U	NA
Aroclor-1254	0.5	0.5	0.2	ug/L	NA	0.096 U	0.095 U	0.096 U	0.48 U [R]	NA	NA	0.095 U	0.095 UH	0.095 U	0.096 U	0.082 U	NA
Aroclor-1260	0.5	0.5	0.2	ug/L	NA	0.096 U	0.095 U	0.096 U	0.48 U [R]	NA	NA	0.095 U	0.095 UH	0.095 U	0.096 U	0.044 U	NA
PCBs-Filtered																	
Aroclor-1016 (PCB-1016) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.054 U
Aroclor-1221 (PCB-1221) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.11 U
Aroclor-1232 (PCB-1232) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.056 U
Aroclor-1242 (PCB-1242) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.075 U
Aroclor-1248 (PCB-1248) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.061 U
Aroclor-1254 (PCB-1254) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.082 U
Aroclor-1260 (PCB-1260) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.044 U
Volatile Organics																	
1,2,3-Trimethylbenzene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	260	750	19	ug/L	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA
Acrylonitrile	2.6	11	2	ug/L	NA	NA	NA	NA	NA	NA	2 U	NA	NA	NA	NA	NA	NA
Hexachloroethane	7.3	21	6.7	ug/L	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA
Iodomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA
m&p-Xylene	--	--	--	ug/L	2 U	NA	NA	NA	NA	NA	2 U	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	95	270	11,000	ug/L	NA	NA	NA	NA	NA	NA	90 U	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA
Acetone	730	2,100	1,700	ug/L	50 U	2.0 J	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	1.0 U	NA
Benzene	5	5	200	ug/L	1 U	1.0 U	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	1 U	6.1	6.6	4.2	5.7	0.32 U	NA
Bromobenzene	18	50	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA
Bromodichloromethane	80	80	--	ug/L	1 U	1.0 U	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	0.34 U	NA
Bromoform	80	80	--	ug/L	1 U	1.0 UJ	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	0.36 U	NA
Bromomethane	10	29	35	ug/L	5 U	1.0 UJ	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	0.40 U	NA
2-Butanone	13,000	38,000	2,200	ug/L	25 U	25 U	25 U	25 U	25 U [25 U]	0.57 J	25 U	0.60 J	0.59 J	25 U	25 U	0.82 U	NA
n-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA
Carbon Disulfide	800	2,300	--	ug/L	5 U	5.0 U	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	0.40 U	NA
Carbon Tetrachloride	5	5	45	ug/L	1 U	1.0 U	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	0.24 U	NA
CFC-11	2,600	7,300	--	ug/L	1 U	1.0 U	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	0.56 U	NA
CFC-12	1,700	4,800	--	ug/L	5 U	1.0 U	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	0.52 U	NA
Chlorobenzene	100	100	25	ug/L	1 U	1.0 U	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	0.28 U	NA
Chlorobromomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA
Chlorodibromomethane	80	80	--	ug/L	5 U	1.0 U	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	0.52 U	NA
Chloroethane	430	1,700	1,100	ug/L	5 U	1.0 UJ	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	50	NA
Chloroform	80	80	350	ug/L	1 U	1.5	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	1.8 J	NA
Chloromethane	260	1,100	--	ug/L	5 U	1.0 U	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	0.26 U	NA
Cyclohexane	--	--	--	ug/L	1 U	1.0 U	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	NA	1.1	1.1	1.1	1.1	0.26 U	NA
Cymene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.2	0.2	--	ug/L	5 U	1.0 UJ	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 U	NA
1,2-Dibromoethane	0.05	0.05	5.7	ug/L	1 U	1.0 U	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	0.44 U	NA
Dibromomethane	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	600	13	ug/L	1 U	1.0 U	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	0.22 U	NA
1,3-Dichlorobenzene	6.6	19	28	ug/L	1 U	1.0 U	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	0.30 U	NA
1,4-Dichlorobenzene	75	75	17	ug/L	1 U	1.0 U	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	0.34 U	NA
1,1-Dichloroethane	880	2,500	740	ug/L	1 U	1.0 U	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	30	NA
1,2-Dichloroethane	5	5	360	ug/L	1 U	1.0 U	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	0.42 U	NA
1,1-Dichloroethene	7	7	130	ug/L	1 U	1.0 U	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	0.78 J	NA
cis-1,2-Dichloroethene	70	70	620	ug/L	1 U	1.0 U	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	0.44 U	NA
trans-1,2-Dichloroethene	100	100	1,500	ug/L	1 U	1.0 U	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	0.30 U	NA
Dichloromethane	5	5	1,500	ug/L	5 U	5.0 U	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	0.77 J	NA
1,2-Dichloropropane	5	5	230	ug/L	1 U	1.0 U	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	0.34 U	NA
cis-1,3-Dichloropropene	--	--	--	ug/L	1 U	1.0 U	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	0.24 U	NA
trans-1,3-Dichloropropene	--	--	--	ug/L	1 U	1.0 U	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	0.54 U	NA
Diethyl Ether	10	10	--	ug/L	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA
1,4-Dioxane	7.2	350	2,800	ug/L	19	NA	NA	NA	NA	NA	3 U	NA	NA	NA	NA	NA	NA
Ethylbenzene	74	74	18	ug/L	1 U	1.0 U	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	1 U	5.5	5.0	3.9	3.5	0.24 U	NA
Isopropylbenzene	800	2,300	28	ug/L	1 U	5.0 U	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	0.24 U	NA
Methyl acetate	--	--	--	ug/L	10 U	10 U	10 U	10 U	10 U [10 U]	10 U	NA	10 U	10 U	10 U	10 U	0.82 U	NA
Methyl N-Butyl Ketone	1,000	2,900	--	ug/L	50 U	50 U	50 U	50 U	50 U [50 U]	50 U	50 U	50 U	50 U	50 U	50 U	0.92 U	NA

See Notes on last page.

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	MWW01-SEN03 04/27/17 <small>MWW10-SEN03_GW-042717</small>	MWW01-SEN04 10/03/12 <small>MWW01-SEN04</small>	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-SEN05_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>	MWW5-01 09/14/01 <small>MWW5-01-GW(14-24)-N</small>	MWW5-01 09/14/01 <small>MWW5-01-GW14-24-N</small>	
Methylcyclohexane	--	--	--	ug/L	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1 U]	1.0 U	2.9	2.8	3.4	2.5	0.30 U	NA	
4-Methyl-2-pentanone	1,800	5,200	--	ug/L	50 U	50 U	50 U	50 U	50 U [50 U]	2.9 J	50 U	0.45 J	0.39 J	50 U	50 U	0.46 U	NA	
Methyl tert-butyl ether	40	40	7,100	ug/L	5 U	5.0 U	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	0.26 U	NA	
Naphthalene	520	1,500	11	ug/L	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA	
n-Propylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	
Styrene	100	100	80	ug/L	1 U	1.0 U	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	0.30 U	NA	
1,1,1,2-Tetrachloroethane	77	320	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	
1,1,2,2-Tetrachloroethane	8.5	35	78	ug/L	1 U	1.0 U	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	0.50 U	NA	
Tetrachloroethene	5	5	60	ug/L	1 U	1.0 U	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	0.46 U	NA	
Toluene	790	790	270	ug/L	1 U	1.0 U	1.0 U	0.27 J	1.0 U [1 U]	1.0 U	1 U	3.7	2.2	1.1	1.2	0.58 J	NA	
1,2,3-Trichlorobenzene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA	
1,2,4-Trichlorobenzene	70	70	99	ug/L	5 U	1.0 U	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	0.34 U	NA	
1,1,1-Trichloroethane	200	200	89	ug/L	1 U	1.0 U	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	0.30 U	NA	
1,1,2-Trichloroethane	5	5	330	ug/L	1 U	1.0 U	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	0.60 U	NA	
Trichloroethene	5	5	200	ug/L	1 U	1.0 U	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	0.28 U	NA	
1,2,3-Trichloropropane	42	120	--	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	
1,1,2-trichloro-1,2,2-trifluoroethane	170,000	170,000	32	ug/L	1 U	1.0 U	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	0.64 U	NA	
1,2,4-Trimethylbenzene	63	63	17	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	
1,3,5-Trimethylbenzene	72	72	45	ug/L	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	
Vinyl Chloride	2	2	13	ug/L	1 U	1.0 U	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	0.30 U	NA	
o-Xylene	--	--	--	ug/L	1 U	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	
Total Xylenes	280	280	41	ug/L	NA	2.0 U	2.0 U	2.0 U	2.0 U [2 U]	2.0 U	NA	33	27	15	13	0.66 U	NA	
Semivolatile Organics																		
1,1'-Biphenyl	--	--	--	ug/L	NA	3.8 U	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	2.6 U	NA	
2,2'-Oxybis(1-Chloropropane)	--	--	--	ug/L	NA	3.8 U	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	0.78 U	NA	
2,4,5-Trichlorophenol	730	2,100	--	ug/L	NA	19 U	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U	1.2 U	NA	
2,4,6-Trichlorophenol	120	470	5	ug/L	NA	15 U	38 U	15 U	40 U [38 U]	NA	NA	9.5 U	15 U	3.8 U	38 U	1.7 U	NA	
2,4-Dichlorophenol	73	210	11	ug/L	NA	38 U	95 U	38 U	100 U [96 U]	NA	NA	24 U	38 U	9.5 U	96 U	0.85 U	NA	
2,4-Dimethylphenol	370	1,000	380	ug/L	NA	19 U	48 U	19 U	50 U [48 U]	NA	NA	2.0 J	19 U	1.3 J	3.1 J	0.85 U	NA	
2,4-Dinitrophenol	--	--	--	ug/L	NA	76 U	190 U	76 U	200 U [190 U]	NA	NA	48 U	76 U	19 U	190 U	3.0 U	NA	
2,4-Dinitrotoluene	7.7	32	--	ug/L	NA	19 U	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U	0.79 U	NA	
2,6-Dinitrotoluene	--	--	--	ug/L	NA	19 U	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U	0.57 U	NA	
2-Chloronaphthalene	1,800	5,200	--	ug/L	NA	19 U	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U	0.85 U	NA	
2-Chlorophenol	45	130	18	ug/L	NA	19 U	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U	1.0 U	NA	
2-Methylnaphthalene	260	750	19	ug/L	NA	19 U	48 U	19 U	50 U [48 U]	NA	NA	4.2 J	0.42 J	2.2 J	2.9 J	0.64 U	NA	
2-Methylphenol	--	--	--	ug/L	NA	19 U	48 U	19 U	50 U [48 U]	NA	NA	4.8 U	19 U	4.8 U	0.37 J	1.1 U	NA	
2-Nitroaniline	--	--	--	ug/L	NA	76 U	190 U	76 U	200 U [190 U]	NA	NA	48 U	76 U	19 U	190 U	0.70 U	NA	
2-Nitrophenol	20	58	--	ug/L	NA	19 U	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U	2.1 U	NA	
3,3'-Dichlorobenzidine	1.1	4.3	0.3	ug/L	NA	19 U	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U	0.93 U	NA	
3-Nitroaniline	--	--	--	ug/L	NA	76 U	190 U	76 U	200 U [190 U]	NA	NA	48 U	76 U	19 U	190 U	0.71 U	NA	
4,6-Dinitro-2-methylphenol	20	20	--	ug/L	NA	76 U	190 U	76 U	200 U [190 U]	NA	NA	48 U	76 U	19 U	190 U	1.3 U	NA	
4-Bromophenyl-phenylether	--	--	--	ug/L	NA	19 U	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U	0.88 U	NA	
4-Chloro-3-Methylphenol	150	420	7.4	ug/L	NA	19 U	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U	0.99 U	NA	
4-Chloroaniline	--	--	--	ug/L	NA	7.6 U	19 U	7.6 U	20 U [19 U]	NA	NA	4.8 U	7.6 U	1.9 U	19 U	0.61 U	NA	
4-Chlorophenyl-phenylether	--	--	--	ug/L	NA	19 U	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U	0.79 U	NA	
4-Methylphenol	--	--	--	ug/L	NA	19 U	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U	1.3 U	NA	
4-Nitroaniline	--	--	--	ug/L	NA	76 U	190 U	76 U	200 U [190 U]	NA	NA	48 U	76 U	19 U	190 U	1.3 U	NA	
4-Nitrophenol	--	--	--	ug/L	NA	76 U	190 U	76 U	200 U [190 U]	NA	NA	48 U	76 U	19 U	190 U	1.9 U	NA	
Acenaphthene	1,300	3,800	38	ug/L	NA	19 U	48 U	19 U	50 U [48 U]	NA	NA	0.96 J	19 U	0.92 J	0.88 J	0.80 U	NA	
Acenaphthylene	52	150	--	ug/L	NA	19 U	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	0.28 J	48 U	0.71 U	NA	
Acetophenone	1,500	4,400	--	ug/L	NA	3.8 U	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	2.6 U	NA	
Anthracene	43	43	--	ug/L	NA	19 U	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	0.44 J	48 U	0.68 U	NA	
Atrazine	3	3	7.3	ug/L	NA	3.8 U	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	2.5 U	NA	
Benzaldehyde	--	--	--	ug/L	NA	3.8 U	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	2.8 U	NA	
Benzo(a)anthracene	2.1	8.5	--	ug/L	NA	3.8 U	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	0.70 U	NA	
Benzo(a)pyrene	5	5	--	ug/L	NA	3.8 U	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	0.73 U	NA	
Benzo(b)fluoranthene	1.5	1.5	--	ug/L	NA	3.8 U	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	0.94 U	NA	
Benzo(g,h,i)perylene	1	1	--	ug/L	NA	3.8 U	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	0.85 U	NA	
Benzo(k)fluoranthene	1	1	--	ug/L	NA	3.8 U	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	0.84 U	NA	
bis(2-Chloroethoxy)methane	--	--	--	ug/L	NA	19 U	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U	0.87 U	NA	
bis(2-Chloroethyl)ether	2	8.3	1	ug/L	NA	3.8 U	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	0.97 U	NA	
bis(2-Ethylhexyl)phthalate	6	6	25	ug/L	NA	19 U	48 U	19 U	2.2 J [13 J]	NA	NA	12 U	19 U	4.8 U	48 U	2.7 U	NA	
Butylbenzylphthalate	1,200	2,700	67	ug/L	NA	19 U	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U	0.88 U	NA	
Caprolactam	5,800	17,000	--	ug/L	NA	19 U	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U	2.5 U	NA	
Carbazole	85	350	10	ug/L	NA	38 U	95 U	38 U	100 U [96 U]	NA	NA	1.5 J	38 U	1.6 J	1.9 J	0.82 U	NA	
Chrysene	1.6	1.6	--	ug/L	NA	3.8 U	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	0.75 U	NA	
Dibenzo(a,h)anthracene	2	2	--	ug/L	NA	7.6 U	19 U	7.6 U	20 U [19 U]	NA	NA	4.8 U	7.6 U*	1.9 U	19 U	0.79 U	NA	
Dibenzofuran	--	--	4	ug/L	NA	15 U	38 U	15 U	40 U [38 U]	NA	NA	0.53 J	15 U	0.58 J	0.52 J	1.1 U	NA	

See Notes on last page.

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



Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	MWW01-SEN03 04/27/17	MWW01-SEN04 10/03/12	MWW01-SEN04 02/19/13	MWW01-SEN04 06/25/13	MWW01-SEN04 12/03/13	MWW01-SEN04 05/18/16	MWW01-SEN04 09/20/16	MWW01-SEN05 10/05/12	MWW01-SEN05 02/20/13	MWW01-SEN05 06/26/13	MWW01-SEN05 12/03/13	MWW5-01 09/14/01	MWW5-01 09/14/01
					MWW10-SEN03_GW-042717	MWW01-SEN04	MWW01-SEN04_021913	MWW01-SEN04_062513	MWW10-SEN04_20131203	MWW10-SEN04-GW-051816	MWW10-SEN04_092016	MWW01-SEN05_100512	MWW01-SEN05_022013	MWW01-SEN05_062613	MWW10-SEN05_20131203	MWW5-01-GW(14-24)-N	MWW5-01-GW14-24-N
Diethylphthalate	5,500	16,000	110	ug/L	NA	19 U	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U	0.65 U	NA
Dimethylphthalate	73,000	210,000	--	ug/L	NA	19 U	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U	0.76 U	NA
Di-n-Butylphthalate	880	2,500	9.7	ug/L	NA	19 U	48 U	19 U	50 U [48 UB]	NA	NA	5.7 J	3.2 J	1.8 JB	48 UB	0.67 U	NA
Di-n-Octylphthalate	130	380	--	ug/L	NA	19 U	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U	1.1 U	NA
Fluoranthene	210	210	1.6	ug/L	NA	3.8 U	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	0.81 U	NA
Fluorene	880	2,000	12	ug/L	NA	19 U	48 U	19 U	50 U [48 U]	NA	NA	1.5 J	1.2 J	1.8 J	1.7 J	1.0 U	NA
Hexachlorobenzene	1	1	0.2	ug/L	NA	0.76 U	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	0.74 U	NA
Hexachlorocyclopentadiene	50	50	--	ug/L	NA	19 U	48 U*	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U	1.1 U	NA
Hexachloroethane	7.3	21	6.7	ug/L	NA	19 U	48 U	19 U	50 UJ [48 UJ]	NA	NA	12 U	19 U	4.8 U	48 UJ	0.74 U	NA
Indeno(1,2,3-cd)pyrene	2	2	--	ug/L	NA	7.6 U	19 U	7.6 U	20 U [19 U]	NA	NA	4.8 U	7.6 U	1.9 U	19 U	0.63 U	NA
Isophorone	770	3,100	1,300	ug/L	NA	19 U	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U	0.63 U	NA
Nitrobenzene	3.4	9.6	180	ug/L	NA	11 U	29 U	11 U	30 U [29 U]	NA	NA	7.1 U	11 U	2.9 U	29 U	0.81 U	NA
N-Nitroso-di-n-propylamine	5	5	--	ug/L	NA	19 U	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U	0.67 U	NA
N-Nitrosodiphenylamine	270	1,100	--	ug/L	NA	19 U	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U	1.4 U	NA
Pentachlorophenol	1	1	--	ug/L	NA	19 U	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U	2.4 U	NA
Phenanthrene	52	150	2	ug/L	NA	0.53 J	19 U	7.6 U	20 U [19 U]	NA	NA	1.8 J	7.6 U	1.7 J	0.53 J	0.82 U	NA
Phenol	4,400	13,000	450	ug/L	NA	19 U	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U	2.6 U	NA
Pyrene	140	140	--	ug/L	NA	19 U	48 U	19 U	50 U [48 U]	NA	NA	12 U	19 U	4.8 U	48 U	1.1 U	NA
Hexachloro-1,3-Butadiene	15	42	0.053	ug/L	NA	3.8 U	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	0.73 U	NA
Naphthalene	520	1,500	11	ug/L	NA	19 U	48 U	19 U	50 U [48 U]	NA	NA	7.8 J	1.8 J	6.6	7.4 J	0.75 U	NA
Inorganics																	
Antimony	6	6	130	ug/L	NA	NA	0.13 J	2.0 U	NA	NA	NA	NA	0.66 J	0.65 J	NA	2.2 U	NA
Arsenic	10	10	10	ug/L	NA	1.9 J	3.7	6.7 B	5.9 J [15 J]	NA	NA	1.5 J	0.71 J	1.3 JB	1.3 J	3.9 U	NA
Barium	2,000	2,000	--	ug/L	NA	95 B	120 B	160 B	160 J [370 J]	NA	NA	1,800 B	2,100 B	2,200 B	2,900 J	156	NA
Beryllium	4	4	--	ug/L	NA	NA	1.0 U	0.055 J	NA	NA	NA	NA	1.0 U	1.0 U	NA	0.54 U	NA
Cadmium	5	5	--	ug/L	NA	0.50 U	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	0.28 U	NA
Calcium	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	100	11	ug/L	NA	5.3	2.2	5.3 B	10 J [140 J]	NA	NA	0.76 J	2.0 U	2.0 U	0.15 J	1.4 U	NA
Cobalt	40	100	100	ug/L	NA	NA	0.75 JB	1.0 B	NA	NA	NA	NA	0.53 JB	0.36 JB	NA	1.7 J	NA
Copper	1,000	1,000	--	ug/L	NA	NA	1.7 J	3.5 B	NA	NA	NA	NA	0.80 J	1.7 JB	NA	4.2 U	NA
Cyanide (total)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	300	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	4	4	--	ug/L	NA	12	3.9 B	11 B	21 J [460 J]	NA	NA	7.0	1.4 B	4.2 B	1.4 J	2.5 U	NA
Magnesium	400,000	1,100,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	50	--	ug/L	NA	NA	400 B	400 B	NA	NA	NA	NA	72 B	62 B	NA	322	NA
Mercury	2	2	0.0013	ug/L	NA	0.20 U	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	0.069 U	NA
Nickel	100	100	--	ug/L	NA	NA	3.4	7.8 B	NA	NA	NA	NA	4.8	2.0 B	NA	13.0 J	NA
Selenium	50	50	5	ug/L	NA	2.0 U	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	4.5 U	NA
Silver	34	98	0.2	ug/L	NA	0.20 U	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	1.5 U	NA
Thallium	2	2	3.7	ug/L	NA	NA	1.0 U	1.0 U	NA	NA	NA	NA	1.0 U	1.0 U	NA	5.0 U	NA
Vanadium	4.5	62	27	ug/L	NA	NA	0.48 J	0.78 JB	NA	NA	NA	NA	4.0 U	4.0 U	NA	1.8 J	NA
Zinc	2,400	5,000	--	ug/L	NA	NA	2.2 J	9.5 JB	NA	NA	NA	NA	4.3 J	14 B	NA	12.0 U	NA
Inorganics-Filtered																	
Antimony (dissolved)	6	6	130	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.2 U	NA
Arsenic (dissolved)	10	10	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.9 U	NA
Barium (dissolved)	2,000	2,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	178	NA
Beryllium (dissolved)	4	4	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.54 U	NA
Cadmium (dissolved)	5	5	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.28 U	NA
Chromium (dissolved)	100	100	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.4 U	NA
Cobalt (dissolved)	40	100	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.0 J	NA
Copper (dissolved)	1,000	1,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.2 U	NA
Iron (dissolved)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (dissolved)	4	4	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA
Manganese (dissolved)	50	50	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	375	NA
Mercury (dissolved)	--	--	0.0013	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.069 U	NA
Nickel (dissolved)	100	100	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.3 J	NA
Selenium (dissolved)	50	50	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.5 U	NA
Silver (dissolved)	34	98	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.5 U	NA
Thallium (dissolved)	2	2	3.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.3 J	NA
Vanadium (dissolved)	4.5	62	27	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 J	NA
Zinc (dissolved)	2,400	5,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.0 U	NA
Miscellaneous																	
Alkalinity, total (as CaCO3)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	--	--	--	none	NA	NA	NA	NA	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	NA	NA	NA	NA
Total Suspended Solids	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on last page.

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	MWW01-SEN03 04/27/17 MWW10-SEN03_GW-042717	MWW01-SEN04 10/03/12 MWW01-SEN04	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	MWW5-01 09/14/01 MWW5-01-GW(14-24)-N	MWW5-01 09/14/01 MWW5-01-GW14-24-N
Conductivity, field	--	--	--	mS/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity, field	--	--	--	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved oxygen (DO), field	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation reduction potential (ORP), field	--	--	--	millivolts	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, ambient	--	--	--	deg f	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, field	--	--	--	deg c	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity (field)	--	--	--	NTU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans																	
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	--	pg/L	NA	NA	5.8 JB	4.0 Jq	NA	NA	NA	NA	6.8 JB	7.3 J	NA	NA	NA
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	--	--	--	pg/L	NA	NA	19 JBq	25 J	NA	NA	NA	NA	7.4 JB	18 J	NA	NA	NA
1,2,3,4,6,7,8-HpCDD	--	--	--	pg/L	NA	NA	3.6 JBq	3.7 Jq	NA	NA	NA	NA	2.1 JB	48 U	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	--	--	--	pg/L	NA	NA	8.0 JB	9.3 J	NA	NA	NA	NA	2.1 JB	7.1 J	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	--	--	--	pg/L	NA	NA	50 U	48 U	NA	NA	NA	NA	1.5 JB	48 U	NA	NA	NA
1,2,3,4,7,8-HxCDD	--	--	--	pg/L	NA	NA	0.45 JBq	48 U	NA	NA	NA	NA	51 U	48 U	NA	NA	NA
1,2,3,4,7,8-HxCDF	--	--	--	pg/L	NA	NA	4.5 JB	3.3 Jq	NA	NA	NA	NA	1.1 J	48 U	NA	NA	NA
1,2,3,6,7,8-HxCDD	--	--	--	pg/L	NA	NA	1.0 JB	48 U	NA	NA	NA	NA	51 U	48 U	NA	NA	NA
1,2,3,6,7,8-HxCDF	--	--	--	pg/L	NA	NA	1.9 JB	48 U	NA	NA	NA	NA	1.1 J	48 U	NA	NA	NA
1,2,3,7,8,9-HxCDD	--	--	--	pg/L	NA	NA	0.96 JB	48 U	NA	NA	NA	NA	51 U	48 U	NA	NA	NA
1,2,3,7,8,9-HxCDF	--	--	--	pg/L	NA	NA	50 U	48 U	NA	NA	NA	NA	1.5 J	48 U	NA	NA	NA
1,2,3,7,8-PeCDD	--	--	--	pg/L	NA	NA	50 U	48 U	NA	NA	NA	NA	51 U	48 U	NA	NA	NA
1,2,3,7,8-PeCDF	--	--	--	pg/L	NA	NA	50 U	48 U	NA	NA	NA	NA	51 U	48 U	NA	NA	NA
2,3,4,6,7,8-HxCDF	--	--	--	pg/L	NA	NA	50 U	48 U	NA	NA	NA	NA	51 U	48 U	NA	NA	NA
2,3,4,7,8-PeCDF	--	--	--	pg/L	NA	NA	50 U	48 U	NA	NA	NA	NA	51 U	48 U	NA	NA	NA
2,3,7,8-TCDD	30	30	10	pg/L	NA	NA	10 U	9.6 U	NA	NA	NA	NA	10 U	9.5 U	NA	NA	NA
2,3,7,8-TCDF	--	--	--	pg/L	NA	NA	2.3 Jq	9.6 U	NA	NA	NA	NA	10 U	9.5 U	NA	NA	NA
Total heptachlorodibenzofuran (HpCDF)	--	--	--	pg/L	NA	NA	9.4 JBq	9.3 J	NA	NA	NA	NA	3.7 JB	25 J	NA	NA	NA
Total heptachlorodibenzo-p-dioxin (HpCDD)	--	--	--	pg/L	NA	NA	10 JBq	9.5 Jq	NA	NA	NA	NA	3.4 JB	6.8 Jq	NA	NA	NA
Total hexachlorodibenzofuran (HxCDF)	--	--	--	pg/L	NA	NA	9.7 JB	6.5 Jq	NA	NA	NA	NA	3.7 JB	6.8 Jq	NA	NA	NA
Total hexachlorodibenzo-p-dioxin (HxCDD)	--	--	--	pg/L	NA	NA	6.2 JBq	48 U	NA	NA	NA	NA	51 U	48 U	NA	NA	NA
Total pentachlorodibenzofuran (PeCDF)	--	--	--	pg/L	NA	NA	3.7 JB	48 U	NA	NA	NA	NA	51 U	48 U	NA	NA	NA
Total pentachlorodibenzo-p-dioxin (PeCDD)	--	--	--	pg/L	NA	NA	50 U	48 U	NA	NA	NA	NA	51 U	48 U	NA	NA	NA
Total TCDF	--	--	--	pg/L	NA	NA	NA	9.6 U	NA	NA	NA	NA	NA	9.5 U	NA	NA	NA
Total tetrachlorodibenzofuran (TCDF)	--	--	--	pg/L	NA	NA	4.8 Jq	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA
Total tetrachlorodibenzo-p-dioxin (TCDD)	--	--	--	pg/L	NA	NA	10 U	9.6 U	NA	NA	NA	NA	10 U	9.5 U	NA	NA	NA

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



Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	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	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	TW10-01 02/18/13 TW-10-01_021813
PCBs																					
Aroclor-1016	0.5	0.5	0.2	ug/L	0.20 U	NA	0.20 U	NA	NA	NA	R	0.095 U	0.095 U	0.095 U	NA	NA	0.095 U	0.095 UH	0.19 U	0.095 U	0.095 U
Aroclor-1221	0.5	0.5	0.2	ug/L	0.20 U	NA	0.20 U	NA	NA	NA	R	0.095 U	0.095 U	0.095 U	NA	NA	0.095 U	0.095 UH	0.19 U	0.095 U	0.095 U
Aroclor-1232	0.5	0.5	0.2	ug/L	0.40 U	NA	0.40 U	NA	NA	NA	R	0.095 U	0.095 U	0.095 U	NA	NA	0.095 U	0.095 UH	0.19 U	0.095 U	0.095 U
Aroclor-1242	0.5	0.5	0.2	ug/L	0.20 U	NA	0.20 U	NA	NA	NA	R	0.095 U	0.095 U	0.095 U	NA	NA	0.095 U	0.095 UH	0.19 U	0.095 U	0.095 U
Aroclor-1248	0.5	0.5	0.2	ug/L	0.20 U	NA	0.20 U	NA	NA	NA	R	0.095 U	0.095 U	0.095 U	NA	NA	0.095 U	0.095 UH	0.19 U	0.095 U	0.095 U
Aroclor-1254	0.5	0.5	0.2	ug/L	0.20 U	NA	0.20 U	NA	NA	NA	R	0.095 U	0.095 U	0.095 U	NA	NA	0.095 U	0.095 UH	0.19 U	0.095 U	0.095 U
Aroclor-1260	0.5	0.5	0.2	ug/L	0.20 U	NA	0.20 U	NA	NA	NA	R	0.095 U	0.095 U	0.095 U	NA	NA	0.095 U	0.095 UH	0.19 U	0.095 U	0.095 U
PCBs-Filtered																					
Aroclor-1016 (PCB-1016) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	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	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	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	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	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	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	NA	NA	NA	NA	NA	NA	NA	NA
Volatile Organics																					
1,2,3-Trimethylbenzene	--	--	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA
2-Methylnaphthalene	260	750	19	ug/L	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA
Acrylonitrile	2.6	11	2	ug/L	NA	NA	NA	NA	2 U	NA	NA	NA	NA	NA	NA	2 U	NA	NA	NA	NA	NA
Hexachloroethane	7.3	21	6.7	ug/L	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA
Iodomethane	--	--	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA
m&p-Xylene	--	--	--	ug/L	NA	NA	NA	NA	2 U	NA	NA	NA	NA	NA	NA	4	NA	NA	NA	NA	NA
Tetrahydrofuran	95	270	11,000	ug/L	NA	NA	NA	NA	90 U	NA	NA	NA	NA	NA	NA	90 U	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	--	--	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA
Acetone	730	2,100	1,700	ug/L	10 U	NA	NA	15 J	50 U	NA	41 J	51 J	64 J	44 J	NA	50 U	25 U	1.4 JB	3.1 J	25 U	35
Benzene	5	5	200	ug/L	0.35 J	NA	NA	1.0 U	1 U	NA	32	31	27	26	NA	2	0.13 J	1.0 U	0.24 J	1.0 U	1.0 U
Bromobenzene	18	50	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA
Bromodichloromethane	80	80	--	ug/L	1.0 U	NA	NA	1.0 U	1 U	NA	20 U	17 U	6.7 U	6.7 U	NA	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	NA	NA	1.0 U	1 U	NA	20 U	17 U	6.7 U	6.7 U	NA	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	10	29	35	ug/L	1.0 U	NA	NA	1.0 U	5 U	NA	20 U	17 U	6.7 U	6.7 U	NA	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	13,000	38,000	2,200	ug/L	10 U	NA	NA	25 U	25 U	NA	500 U	420 U	51 J	170 U	NA	25 U	25 U	0.61 J	25 U	25 U	25 U
n-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA
sec-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA
tert-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA
Carbon Disulfide	800	2,300	--	ug/L	1.0 U	NA	NA	5.0 U	5 U	NA	100 U	83 U	33 U	1.5 J	NA	5 U	5.0 U	5.0 U	0.20 J	5.0 U	5.0 U
Carbon Tetrachloride	5	5	45	ug/L	1.0 U	NA	NA	1.0 U	1 U	NA	20 U	17 U	6.7 U	6.7 U	NA	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CFC-11	2,600	7,300	--	ug/L	1.0 U	NA	NA	1.0 U	1 U	NA	20 U	17 U*	6.7 U	6.7 U	NA	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*
CFC-12	1,700	4,800	--	ug/L	2.0 U	NA	NA	1.0 U	5 U	NA	20 U	17 U*	6.7 U	6.7 U	NA	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	NA	NA	1.0 U	1 U	NA	20 U	17 U	6.7 U	6.7 U	NA	1 U	1.0 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	NA	NA	1 U	NA	NA	NA	NA	NA
Chlorodibromomethane	80	80	--	ug/L	1.0 U	NA	NA	1.0 U	5 U	NA	20 U	17 U	6.7 U	6.7 U	NA	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	430	1,700	1,100	ug/L	36	NA	NA	1.0 U	33	NA	20 U	17 U	1.9 J	6.7 U	NA	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	80	80	350	ug/L	1.0 U	NA	NA	1.0 U	1 U	NA	20 U	17 U	6.7 U	6.7 U	NA	1 U	1.0 U	1.0 U	1.0 U	0.54 J	1.0 U
Chloromethane	260	1,100	--	ug/L	1.0 U	NA	NA	1.0 U	5 U	NA	20 U	17 U	6.7 U	6.7 U	NA	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	--	--	--	ug/L	1.0 U	NA	NA	1.0 U	NA	NA	20 U	17 U	1.5 J	3.7 J	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cymene	--	--	--	ug/L	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.2	0.2	--	ug/L	2.0 U	NA	NA	1.0 U	5 U	NA	20 U	17 U	6.7 U	6.7 U	NA	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	NA	NA	1.0 U	1 U	NA	20 U	17 U	6.7 U	6.7 U	NA	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromomethane	80	230	--	ug/L	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	600	13	ug/L	1.0 U	NA	NA	1.0 U	1 U	NA	20 U	17 U	1.6 J	6.7 U	NA	1 U	1.0 U	1.0 U	0.37 J	1.0 U	1.0 U
1,3-Dichlorobenzene	6.6	19	28	ug/L	1.0 U	NA	NA	1.0 U	1 U	NA	20 U	17 U	6.7 U	6.7 U	NA	1 U	1.0 U	1.0 U	0.24 J	1.0 U	1.0 U
1,4-Dichlorobenzene	75	75	17	ug/L	1.0 U	NA	NA	1.0 U	1 U	NA	20 U	17 U	6.7 U	6.7 U	NA	1 U	1.0 U	1.0 U	0.30 J	1.0 U	1.0 U
1,1-Dichloroethane	880	2,500	740	ug/L	20	NA	NA	1.0 U	1 U	NA	67	65	58	52	NA	4	1.0 U	0.24 J	0.38 J	1.0 U	1.0 U
1,2-Dichloroethane	5	5	360	ug/L	1.0 U	NA	NA	1.0 U	1 U	NA	20 U	17 U	4.5 J	6.7 U	NA	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	NA	NA	1.0 U	1 U	NA	20 U	17 U	6.7 U	6.7 U	NA	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	0.32 J	NA	NA	1.0 U	1 U	NA	93	96	84	81	NA	4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	100	100	1,500	ug/L	0.50 U	NA	NA	1.0 U	1 U	NA	20 U	17 U	3.1 J	2.5 J	NA	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichloromethane	5	5	1,500	ug/L	1.0 U	NA	NA	5.0 U	5 U	NA	100 U	83 U	11 JB	33 U	NA	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	NA	NA	1.0 U	1 U	NA	20 U	17 U	6.7 U	6.7 U	NA	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	NA	NA	1.0 U	1 U	NA	20 U	17 U	6.7 U	6.7 U	NA	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	NA	NA	1.0 U	1 U	NA											

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	MWW5-01 01/09/02	MWW5-01 01/09/02	MWW5-01 11/13/06	MWW5-01 05/19/16	MWW5-01 09/20/16	MWW5-01 05/25/17	TW01-03 10/04/12	TW01-03 02/19/13	TW01-03 06/25/13	TW01-03 12/03/13	TW01-03 09/20/16	TW01-03 09/20/16	TW09-01 10/05/12	TW09-01 02/20/13	TW09-01 06/24/13	TW10-01 10/04/12	TW10-01 02/18/13
	MWW5-01-GW	MWW5-01-GWDL	MWW5-01-WG-111306		MWW5-01-GW-051916	MWW5-01-092016	MWW5-01-GW-052517	TW-01-03_100412	TW-01-03_021913	TW-01-03_062513	TW01-03_20131203	TW-01-03_092016	TW-01-03_092016DL	TW-09-01_100512	TW-09-01_022013	TW-09-01_062413	TW-10-01_100412	TW-10-01_021813			
Methylcyclohexane	--	--	--	ug/L	1.0 U	NA	NA	1.0 U	NA	NA	20 U	2.7 J	3.3 J	4.9 J	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-pentanone	1,800	5,200	--	ug/L	0.50 J	NA	NA	3.6 J	50 U	NA	70 J	72 J	91 J	78 J	NA	50 U	50 U	50 U	0.47 J	50 U	50 U
Methyl tert-butyl ether	40	40	7,100	ug/L	5.0 U	NA	NA	5.0 U	5 U	NA	100 U	83 U	33 U	33 U	NA	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	520	1,500	11	ug/L	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA
n-Propylbenzene	80	230	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA
Styrene	100	100	80	ug/L	1.0 U	NA	NA	1.0 U	1 U	NA	20 U	17 U	6.7 U	6.7 U	NA	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1,2-Tetrachloroethane	77	320	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	8.5	35	78	ug/L	1.0 U	NA	NA	1.0 U	1 U	NA	20 U	17 U	6.7 U	6.7 U	NA	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	NA	NA	1.0 U	1 U	NA	20 U	17 U	6.7 U	6.7 U	NA	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	790	790	270	ug/L	0.26 J	NA	NA	1.0 U	1 U	NA	530	600	450	440	NA	26	0.18 J	1.0 U	0.39 J	0.19 J	1.0 U
1,2,3-Trichlorobenzene	--	--	--	ug/L	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	70	99	ug/L	1.0 U	NA	NA	1.0 U	5 U	NA	20 U	17 U	6.7 U	6.7 U	NA	5 U	1.0 U	1.0 U	1.7	1.0 UJ	1.0 U
1,1,1-Trichloroethane	200	200	89	ug/L	1.0 U	NA	NA	1.0 U	1 U	NA	20 U	17 U	6.7 U	6.7 U	NA	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	NA	NA	1.0 U	1 U	NA	20 U	17 U	6.7 U	6.7 U	NA	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	NA	NA	1.0 U	1 U	NA	20 U	17 U	6.7 U	6.7 U	NA	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichloropropane	42	120	--	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	170,000	170,000	32	ug/L	1.0 U	NA	NA	1.0 U	NA	NA	20 U	17 U	6.7 U	6.7 U	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	63	63	17	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	72	72	45	ug/L	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA
Vinyl Chloride	2	2	13	ug/L	0.27 J	NA	NA	1.0 U	1 U	NA	20 U	4.0 J	3.1 J	3.2 J	NA	2	1.0 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	NA	NA	3	NA	NA	NA	NA	NA
Total Xylenes	280	280	41	ug/L	0.43 J	NA	NA	2.0 U	NA	NA	110	140	110	110	NA	NA	2.0 U	2.0 U	0.28 J	2.0 U	2.0 U
Semivolatiles Organics																					
1,1'-Biphenyl	--	--	--	ug/L	NA	25 U	NA	NA	NA	NA	9.5 U	6.3 U	9.5 U	100 U	NA	NA	2.4 U	19 U	3.8 U	0.95 U	0.95 U
2,2'-Oxybis(1-Chloropropane)	--	--	--	ug/L	NA	12 U	NA	NA	NA	NA	9.5 U	6.3 U	9.5 U	100 U	NA	NA	2.4 U	19 U	3.8 U	0.95 U	0.95 U
2,4,5-Trichlorophenol	730	2,100	--	ug/L	NA	12 U	NA	NA	NA	NA	16 J	7.9 J	48 U	7.8 J	NA	NA	12 U	95 U	19 U	4.8 U	4.8 U
2,4,6-Trichlorophenol	120	470	5	ug/L	NA	12 U	NA	NA	NA	NA	38 U	25 U	38 U	400 U	NA	NA	9.5 U	76 U	15 U	3.8 U	3.8 U
2,4-Dichlorophenol	73	210	11	ug/L	NA	25 U	NA	NA	NA	NA	95 U	63 U	95 U	1,000 U	NA	NA	24 U	190 U	38 U	9.5 U	9.5 U
2,4-Dimethylphenol	370	1,000	380	ug/L	NA	12 U	NA	NA	NA	NA	210	160	260	320 J	NA	NA	12 U	95 U	19 U	4.8 U	4.8 U
2,4-Dinitrophenol	--	--	--	ug/L	NA	50 U	NA	NA	NA	NA	190 U	130 U	190 U	2,000 U	NA	NA	48 U	380 U	76 U	19 U	19 U
2,4-Dinitrotoluene	7.7	32	--	ug/L	NA	12 U	NA	NA	NA	NA	48 U	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U	4.8 U
2,6-Dinitrotoluene	--	--	--	ug/L	NA	12 U	NA	NA	NA	NA	48 U	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U	4.8 U
2-Chloronaphthalene	1,800	5,200	--	ug/L	NA	12 U	NA	NA	NA	NA	48 U	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U	4.8 U
2-Chlorophenol	45	130	18	ug/L	NA	12 U	NA	NA	NA	NA	48 U	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U	4.8 U
2-Methylnaphthalene	260	750	19	ug/L	NA	12 U	NA	NA	NA	NA	8.2 J	9.3 J	10 J	9.8 J	NA	NA	0.74 J	95 U	19 U	4.8 U	4.8 U
2-Methylphenol	--	--	--	ug/L	NA	12 U	NA	NA	NA	NA	35 J	26 J	44 J	48 J	NA	NA	12 U	95 U	19 U	4.8 U	4.8 U
2-Nitroaniline	--	--	--	ug/L	NA	50 U	NA	NA	NA	NA	190 U	130 U	190 U	2,000 U	NA	NA	48 U	380 U	76 U	19 U	19 U
2-Nitrophenol	20	58	--	ug/L	NA	12 U	NA	NA	NA	NA	48 U	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U	4.8 U
3,3'-Dichlorobenzidine	1.1	4.3	0.3	ug/L	NA	50 U	NA	NA	NA	NA	48 U	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U	4.8 U
3-Nitroaniline	--	--	--	ug/L	NA	50 U	NA	NA	NA	NA	190 U	130 U	190 U	2,000 U	NA	NA	48 U	380 U	76 U	19 U	19 U
4,6-Dinitro-2-methylphenol	20	20	--	ug/L	NA	50 U	NA	NA	NA	NA	190 U	130 U	190 U	2,000 U	NA	NA	48 U	380 U	76 U	19 U	19 U
4-Bromophenyl-phenylether	--	--	--	ug/L	NA	12 U	NA	NA	NA	NA	48 U	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U	4.8 U
4-Chloro-3-Methylphenol	150	420	7.4	ug/L	NA	12 U	NA	NA	NA	NA	48 U	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U	4.8 U
4-Chloroaniline	--	--	--	ug/L	NA	25 U	NA	NA	NA	NA	19 U	13 U	19 U	200 U	NA	NA	4.8 U	38 U	7.6 U	1.9 U	1.9 U
4-Chlorophenyl-phenylether	--	--	--	ug/L	NA	12 U	NA	NA	NA	NA	48 U	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U	4.8 U
4-Methylphenol	--	--	--	ug/L	NA	12 U	NA	NA	NA	NA	47 J	18 J	34 J	33 J	NA	NA	12 U	95 U	19 U	4.8 U	4.8 U
4-Nitroaniline	--	--	--	ug/L	NA	50 U	NA	NA	NA	NA	190 U	130 U	190 U	2,000 U	NA	NA	48 U	380 U	76 U	19 U	19 U
4-Nitrophenol	--	--	--	ug/L	NA	50 U	NA	NA	NA	NA	190 U	130 U	190 U	2,000 U	NA	NA	48 U	380 U	76 U	19 U	19 U
Acenaphthene	1,300	3,800	38	ug/L	NA	12 U	NA	NA	NA	NA	48 U	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U	4.8 U
Acenaphthylene	52	150	--	ug/L	NA	12 U	NA	NA	NA	NA	48 U	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U	4.8 U
Acetophenone	1,500	4,400	--	ug/L	NA	25 U	NA	NA	NA	NA	9.5 U	6.3 U	9.5 U	100 U	NA	NA	2.4 U	19 U	3.8 U	0.95 U	0.95 U
Anthracene	43	43	--	ug/L	NA	12 U	NA	NA	NA	NA	48 U	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U	4.8 U
Atrazine	3	3	7.3	ug/L	NA	12 U	NA	NA	NA	NA	9.5 U	6.3 U	9.5 U	100 U	NA	NA	2.4 U	19 U*	3.8 U*	0.95 U	0.95 U
Benzaldehyde	--	--	--	ug/L	NA	25 U	NA	NA	NA	NA	9.5 U	6.3 U*	9.5 U	100 U	NA	NA	2.4 U	19 U	3.8 U	0.95 U	0.95 U*
Benzo(a)anthracene	2.1	8.5	--	ug/L	NA	12 U	NA	NA	NA	NA	9.5 U	6.3 U	9.5 U	100 U	NA	NA	2.4 U	19 U	3.8 U	0.95 U	0.95 U
Benzo(a)pyrene	5	5	--	ug/L	NA	12 U	NA	NA	NA	NA	9.5 U	6.3 U	9.5 U	100 U	NA	NA	2.4 U	19 U	3.8 U	0.95 U	0.95 U
Benzo(b)fluoranthene	1.5	1.5	--	ug/L	NA	12 U	NA	NA	NA	NA	9.5 U	6.3 U	9.5 U	100 U	NA	NA	2.4 U	19 U	3.8 U	0.95 U	0.95 U
Benzo(g,h,i)perylene	1	1	--	ug/L	NA	12 U	NA	NA	NA	NA	9.5 U	6.3 U	9.5 U	100 U	NA	NA	2.4 U	19 U	3.8 U	0.95 U	0.95 U
Benzo(k)fluoranthene	1	1	--	ug/L	NA	12 U	NA	NA	NA	NA	9.5 U	6.3 U	9.5 U	100 U	NA	NA	2.4 U	19 U	3.8 U	0.95 U	0.95 U
bis(2-Chloroethoxy)methane	--	--	--	ug/L	NA	12 U	NA	NA	NA	NA	48 U	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U	4.8 U
bis(2-Chloroethyl)ether	2	8.3	1	ug/L	NA	12 U	NA	NA	NA	NA	9.5 U	6.3 U	9.5 U	100 U	NA	NA	2.4 U	19 U	3.8 U	0.95 U	0.95 U
bis(2-Ethylhexyl)phthalate	6	6	25	ug/L	NA	12 U	NA	NA	NA	NA	48 U	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U	0.89 JB
Butylbenzylphthalate	1,200	2,700	67	ug/L	NA	12 U	NA	NA	NA	NA	48 U	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U	4.8 U
Caprolactam	5,800	17,000	--	ug/L	NA	25 U	NA	NA	NA	NA	48 U	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U	4.8 U
Carbazole	85	350	10	ug/L	NA	25 U	NA	NA	NA	NA	2.7 J	3.1 J	5.0 J	5.9 J	NA	NA	24 U	190 U	38 U	9.5 U	9.5 U
Chrysene	1.6	1.6	--	ug/L	NA	12 U	NA	NA	NA	NA	9.5 U	6.3 U	9.5 U	100 U	NA	NA	2.4 U	19 U	3.8 U	0.95 U	0.95 U
Dibenzo(a,h)anthracene	2	2	--	ug/L	NA	12 U	NA	NA	NA	NA	19 U	13 U	19 U	200 U	NA	NA	4.8 U	38 U*	7.6 U	1.9 U	1.9 U
Dibenzofuran	--	--	4	ug/L	NA	12 U	NA	NA	NA	NA	38 U	25 U	38 U	400 U							

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	MWW5-01 01/09/02	MWW5-01 01/09/02	MWW5-01 11/13/06	MWW5-01 05/19/16	MWW5-01 09/20/16	MWW5-01 05/25/17	TW01-03 10/04/12	TW01-03 02/19/13	TW01-03 06/25/13	TW01-03 12/03/13	TW01-03 09/20/16	TW01-03 09/20/16	TW09-01 10/05/12	TW09-01 02/20/13	TW09-01 06/24/13	TW10-01 10/04/12	TW10-01 02/18/13	
	MWW5-01-GW	MWW5-01-GWDL	MWW5-01-WG-111306		MWW5-01-GW-051916	MWW5-01-092016	MWW5-01-GW-052517	TW01-03_100412	TW01-03_021913	TW01-03_062513	TW01-03_20131203	TW01-03_092016	TW01-03_092016DL	TW09-01_100512	TW09-01_022013	TW09-01_062413	TW10-01_100412	TW10-01_021813				
Diethylphthalate	5,500	16,000	110	ug/L	NA	12 U	NA	NA	NA	NA	48 U	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U	4.8 U	
Dimethylphthalate	73,000	210,000	--	ug/L	NA	12 U	NA	NA	NA	NA	48 U	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U	4.8 U	
Di-n-Butylphthalate	880	2,500	9.7	ug/L	NA	12 U	NA	NA	NA	NA	48 U	5.3 J	13 JB	500 UB	NA	NA	12 U	95 U	19 U	4.8 U	4.8 U	
Di-n-Octylphthalate	130	380	--	ug/L	NA	12 U	NA	NA	NA	NA	48 U	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U	4.8 U	
Fluoranthene	210	210	1.6	ug/L	NA	12 U	NA	NA	NA	NA	9.5 U	6.3 U	9.5 U	100 U	NA	NA	2.4 U	19 U	3.8 U	0.95 U	0.95 U	
Fluorene	880	2,000	12	ug/L	NA	12 U	NA	NA	NA	NA	48 U	32 U	48 U	500 U	NA	NA	4.2 J	6.0 J	3.7 J	4.8 U	4.8 U	
Hexachlorobenzene	1	1	0.2	ug/L	NA	12 U	NA	NA	NA	NA	1.9 U	1.3 U	1.9 U	20 U	NA	NA	0.48 U	3.8 U	0.76 U	0.19 U	0.19 U	
Hexachlorocyclopentadiene	50	50	--	ug/L	NA	12 U	NA	NA	NA	NA	48 U	32 U*	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U	4.8 U*	
Hexachloroethane	7.3	21	6.7	ug/L	NA	12 U	NA	NA	NA	NA	48 U	32 U	48 U	500 UJ	NA	NA	12 U	95 U	19 U	4.8 U	4.8 U	
Indeno(1,2,3-cd)pyrene	2	2	--	ug/L	NA	12 U	NA	NA	NA	NA	19 U	13 U	19 U	200 U	NA	NA	4.8 U	38 U	7.6 U	1.9 U	1.9 U	
Isophorone	770	3,100	1,300	ug/L	NA	12 U	NA	NA	NA	NA	48 U	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U	4.8 U	
Nitrobenzene	3.4	9.6	180	ug/L	NA	12 U	NA	NA	NA	NA	29 U	19 U	29 U	300 U	NA	NA	7.1 U	57 U	11 U	2.9 U	2.9 U	
N-Nitroso-di-n-propylamine	5	5	--	ug/L	NA	12 U	NA	NA	NA	NA	48 U	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U	4.8 U	
N-Nitrosodiphenylamine	270	1,100	--	ug/L	NA	12 U	NA	NA	NA	NA	48 U	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U	4.8 U	
Pentachlorophenol	1	1	--	ug/L	NA	12 U	NA	NA	NA	NA	48 U	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U	4.8 U	
Phenanthrene	52	150	2	ug/L	NA	2.3 J	NA	NA	NA	NA	1.3 J	13 U	19 U	200 U	NA	NA	4.2 J	8.8 J	2.6 J	1.9 U	1.9 U	
Phenol	4,400	13,000	450	ug/L	NA	12 U	NA	NA	NA	NA	48 U	32 U	48 U	500 U	NA	NA	12 U	95 U	19 U	4.8 U	4.8 U	
Pyrene	140	140	--	ug/L	NA	12 U	NA	NA	NA	NA	48 U	32 U	48 U	500 U	NA	NA	0.60 J	95 U	19 U	4.8 U	4.8 U	
Hexachloro-1,3-Butadiene	15	42	0.053	ug/L	NA	12 U	NA	NA	NA	NA	9.5 U	6.3 U	9.5 U	100 UJ	NA	NA	2.4 U	19 U	3.8 U	0.95 U	0.95 U	
Naphthalene	520	1,500	11	ug/L	NA	2.5 J	NA	NA	NA	NA	19 J	21 J	24 J	24 J	NA	NA	12 U	95 U	19 U	4.8 U	4.8 U	
Inorganics																						
Antimony	6	6	130	ug/L	25.0 U	NA	NA	NA	NA	NA	2.0 UB	0.13 J	2.0 U	NA	NA	NA	NA	0.026 J	0.14 J	2.0 UB	0.075 J	
Arsenic	10	10	10	ug/L	58.5	NA	NA	NA	NA	NA	36	31	34 B	27 J	NA	NA	33	48	34 B	4.6	2.7	
Barium	2,000	2,000	--	ug/L	163	NA	NA	NA	NA	NA	120 B	110 B	200 B	160 J	NA	NA	450 B	490 B	330 B	400 B	290 B	
Beryllium	4	4	--	ug/L	1.0 U	NA	NA	NA	NA	NA	1.0 U	0.037 J	1.0 U	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	0.048 J	
Cadmium	5	5	--	ug/L	0.47 J	NA	NA	NA	NA	NA	0.50 U	0.50 U	0.50 U	0.032 J	NA	NA	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	
Calcium	--	--	--	ug/L	NA	NA	NA	NA	NA	144,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	100	100	11	ug/L	10.0 U	NA	NA	NA	NA	NA	0.90 J	0.73 J	0.52 JB	0.66 J	NA	NA	3.9	2.0 U	1.3 J	1.0 J	3.5	
Cobalt	40	100	100	ug/L	4.1 J	NA	NA	NA	NA	NA	0.91 J	0.80 JB	0.68 JB	NA	NA	NA	NA	0.30 JB	0.67 J	1.7	1.6 B	
Copper	1,000	1,000	--	ug/L	5.0 U	NA	NA	NA	NA	NA	2.0 UB	1.2 J	0.52 JB	NA	NA	NA	NA	0.50 J	0.50 JB	2.0 UB	2.3	
Cyanide (total)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	300	300	--	ug/L	NA	NA	NA	NA	NA	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	4	4	--	ug/L	3.0 U	NA	NA	NA	NA	NA	0.23 J	0.18 JB	0.26 JB	1.0 UBJ	NA	NA	0.71 J	1.0 U	0.24 J	0.32 J	0.44 JB	
Magnesium	400,000	1,100,000	--	ug/L	NA	NA	NA	NA	NA	18,900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	50	50	--	ug/L	766	NA	NA	NA	NA	86	100	72 B	110 B	NA	NA	NA	NA	1,100 B	1,600	190	140 B	
Mercury	2	2	0.0013	ug/L	0.30	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.20 U	NA	NA	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
Nickel	100	100	--	ug/L	12.4 J	NA	NA	NA	NA	NA	8.6	4.8	4.7 B	NA	NA	NA	NA	2.0 U	4.9	4.0	5.2	
Selenium	50	50	5	ug/L	5.0 U	NA	NA	NA	NA	NA	2.0 U	1.3 J	1.2 J	2.0 U	NA	NA	2.0 U	0.96 J	2.0 U	2.0 U	0.73 J	
Silver	34	98	0.2	ug/L	5.0 U	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	0.20 U	NA	NA	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
Thallium	2	2	3.7	ug/L	1.0 U	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	1.0 U	1.0 U	1.0 UB	1.0 U	
Vanadium	4.5	62	27	ug/L	0.83 J	NA	NA	NA	NA	NA	1.2 J	0.83 J	0.36 JB	NA	NA	NA	NA	0.11 J	1.4 J	1.1 J	1.1 J	
Zinc	2,400	5,000	--	ug/L	20.0 U	NA	NA	NA	NA	NA	10 UB	10 U	2.2 JB	NA	NA	NA	NA	10 U	8.0 JB	10 UB	3.1 J	
Inorganics-Filtered																						
Antimony (dissolved)	6	6	130	ug/L	25.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Arsenic (dissolved)	10	10	10	ug/L	47.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium (dissolved)	2,000	2,000	--	ug/L	161	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Beryllium (dissolved)	4	4	--	ug/L	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium (dissolved)	5	5	--	ug/L	0.39 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium (dissolved)	100	100	11	ug/L	10.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cobalt (dissolved)	40	100	100	ug/L	4.1 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper (dissolved)	1,000	1,000	--	ug/L	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron (dissolved)	--	--	--	ug/L	NA	NA	NA	NA	NA	90	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead (dissolved)	4	4	--	ug/L	3.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese (dissolved)	50	50	--	ug/L	815	NA	NA	NA	NA	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mercury (dissolved)	--	--	0.0013	ug/L	0.22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nickel (dissolved)	100	100	--	ug/L	11.3 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Selenium (dissolved)	50	50	5	ug/L	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver (dissolved)	34	98	0.2	ug/L	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Thallium (dissolved)	2	2	3.7	ug/L	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Vanadium (dissolved)	4.5	62	27	ug/L	10.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc (dissolved)	2,400	5,000	--	ug/L	20.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Miscellaneous																						
Alkalinity, total (as CaCO3)	--	--	--	ug/L	NA	NA	NA	NA	NA	428,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Hardness	--	--	--	ug/L	NA	NA	NA	NA	NA	440,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
pH (water)	--	--	--	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Dissolved Solids	500,000	500,000	--	ug/L	NA	NA	NA	NA	NA	554,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Suspended Solids	--	--	--	ug/L	NA	NA	NA	NA	NA	3,000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

See Notes on last page.

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	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	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	TW10-01 02/18/13 TW-10-01_021813
Conductivity, field	--	--	--	mS/cm	NA	NA	2.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity, field	--	--	--	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved oxygen (DO), field	--	--	--	ug/L	NA	NA	240	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation reduction potential (ORP), field	--	--	--	millivolts	NA	NA	76	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, ambient	--	--	--	deg f	NA	NA	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, field	--	--	--	deg c	NA	NA	11.65	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity (field)	--	--	--	NTU	NA	NA	8.76	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans																					
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	24 JB	16 Jq	NA	NA	NA	NA	11 JB	95 U	NA	100 U
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	17 JB	14 J	NA	NA	NA	NA	76 JB	2.6 JqB	NA	2.4 JBq
1,2,3,4,6,7,8-HpCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	7.9 JB	5.3 J	NA	NA	NA	NA	11 JB	48 U	NA	0.89 JB
1,2,3,4,6,7,8-HpCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	30 JB	28 J	NA	NA	NA	NA	11 JB	48 U	NA	0.59 JBq
1,2,3,4,7,8,9-HpCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	50 U	47 U	NA	NA	NA	NA	51 U	48 U	NA	50 U
1,2,3,4,7,8-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	50 U	47 U	NA	NA	NA	NA	51 U	48 U	NA	50 U
1,2,3,4,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	50 U	47 U	NA	NA	NA	NA	51 U	48 U	NA	50 U
1,2,3,6,7,8-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	2.2 JB	47 U	NA	NA	NA	NA	2.0 Jq	48 U	NA	50 U
1,2,3,6,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	50 U	47 U	NA	NA	NA	NA	51 U	48 U	NA	50 U
1,2,3,7,8,9-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	0.69 JB	47 U	NA	NA	NA	NA	51 U	48 U	NA	50 U
1,2,3,7,8,9-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	50 U	47 U	NA	NA	NA	NA	51 U	48 U	NA	50 U
1,2,3,7,8-PeCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	50 U	47 U	NA	NA	NA	NA	51 U	48 U	NA	50 U
1,2,3,7,8-PeCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	50 U	47 U	NA	NA	NA	NA	51 U	48 U	NA	50 U
2,3,4,6,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	50 U	47 U	NA	NA	NA	NA	51 U	48 U	NA	50 U
2,3,4,7,8-PeCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	50 U	47 U	NA	NA	NA	NA	51 U	48 U	NA	50 U
2,3,7,8-TCDD	30	30	10	pg/L	NA	NA	NA	NA	NA	NA	NA	10 U	9.5 U	NA	NA	NA	NA	10 U	9.5 U	NA	10 U
2,3,7,8-TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	10 U	9.5 U	NA	NA	NA	NA	10 U	9.5 U	NA	10 U
Total heptachlorodibenzofuran (HpCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	92 B	86	NA	NA	NA	NA	33 JB	48 U	NA	0.59 JBq
Total heptachlorodibenzo-p-dioxin (HpCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	14 JBq	11 Jq	NA	NA	NA	NA	24 JB	48 U	NA	2.0 JBq
Total hexachlorodibenzofuran (HxCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	31 JB	33 J	NA	NA	NA	NA	11 JB	48 U	NA	50 U
Total hexachlorodibenzo-p-dioxin (HxCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	14 JBq	6.1 J	NA	NA	NA	NA	12 Jq	48 U	NA	50 U
Total pentachlorodibenzofuran (PeCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	14 JBq	8.1 Jq	NA	NA	NA	NA	51 U	48 U	NA	50 U
Total pentachlorodibenzo-p-dioxin (PeCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	50 U	47 U	NA	NA	NA	NA	51 U	48 U	NA	50 U
Total TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	9.5 U	NA	NA	NA	NA	NA	9.5 U	NA	NA
Total tetrachlorodibenzofuran (TCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	10 U	NA	NA	10 U
Total tetrachlorodibenzo-p-dioxin (TCDD)	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	10 U	9.5 U	NA	NA	NA	NA	10 U	9.5 U	NA	10 U

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	TW10-01	TW10-01	TW10-01	TW10-02	TW10-02	TW10-02	TW10-02	TW10-02	TW10-02	TW-MD-01	TW-MD-01	TW-MD-01	TW-MD-01	TW-MD-01	TW-MD-01	TW-MD-01
					06/24/13	12/03/13	09/19/16	10/04/12	02/19/13	06/25/13	12/03/13	05/18/16	07/30/14	09/04/14	02/11/15	03/31/15	05/20/15	12/21/16	12/21/16	
Methylcyclohexane	--	--	--	ug/L	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	NA	NA	1 U	NA
4-Methyl-2-pentanone	1,800	5,200	--	ug/L	50 U	50 U	50 U	0.50 J	0.38 J	0.37 J	0.43 J	3.9 J	NA	50 U	NA	NA	NA	NA	50 U	NA
Methyl tert-butyl ether	40	40	7,100	ug/L	5.0 U	5.0 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	NA	NA	5 U	NA
Naphthalene	520	1,500	11	ug/L	NA	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	80	230	--	ug/L	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	100	80	ug/L	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	NA	NA	1 U	NA
1,1,1,2-Tetrachloroethane	77	320	--	ug/L	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	8.5	35	78	ug/L	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	NA	NA	1 U	NA
Tetrachloroethene	5	5	60	ug/L	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	NA	NA	1 U	NA
Toluene	790	790	270	ug/L	1.0 U	1.0 U	1 U	5.4	5.1	4.5	4.8	3.4	NA	1.0 U	NA	NA	NA	NA	1 U	NA
1,2,3-Trichlorobenzene	--	--	--	ug/L	NA	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	70	99	ug/L	1.0 U	1.0 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	NA	NA	5 U	NA
1,1,1-Trichloroethane	200	200	89	ug/L	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	NA	NA	1 U	NA
1,1,2-Trichloroethane	5	5	330	ug/L	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	NA	NA	1 U	NA
Trichloroethene	5	5	200	ug/L	1.0 U	1.0 U	1 U	0.27 J	0.23 J	0.19 J	0.18 J	0.24 J	NA	1.0 U	NA	NA	NA	NA	1 U	NA
1,2,3-Trichloropropane	42	120	--	ug/L	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	170,000	170,000	32	ug/L	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	NA	NA	1 U	NA
1,2,4-Trimethylbenzene	63	63	17	ug/L	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	72	72	45	ug/L	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	2	2	13	ug/L	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	NA	NA	1 U	NA
o-Xylene	--	--	--	ug/L	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	NA
Total Xylenes	280	280	41	ug/L	2.0 U	2.0 U	NA	14	14	9.9	12	14	NA	2.0 U	NA	NA	NA	NA	NA	NA
Semivolatile Organics																				
1,1'-Biphenyl	--	--	--	ug/L	0.95 U	9.6 U	NA	24 J	9.5 U	9.5 U	50 U	3.7 U	NA	10 U	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	--	--	--	ug/L	0.95 U	9.6 U	NA	24 U	9.5 U	9.5 U	50 U	3.7 U	NA	10 U	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	730	2,100	--	ug/L	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U	NA	52 U	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	120	470	5	ug/L	3.8 U	38 U	NA	95 U	38 U	38 U	200 U	15 U	NA	42 U	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	73	210	11	ug/L	9.5 U	96 U	NA	240 U	95 U	95 U	500 U	37 U	NA	100 U	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	370	1,000	380	ug/L	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U	NA	52 U	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	--	--	--	ug/L	19 U	190 U	NA	480 U	190 U	190 U	1,000 U	74 U	NA	210 U	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	7.7	32	--	ug/L	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U	NA	52 U	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	--	--	--	ug/L	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U	NA	52 U	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	1,800	5,200	--	ug/L	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U	NA	52 U	NA	NA	NA	NA	NA	NA
2-Chlorophenol	45	130	18	ug/L	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U	NA	52 U	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	260	750	19	ug/L	4.8 U	48 U	NA	81 J	48 U	48 U	9.7 J	19 U	NA	52 U	NA	NA	NA	NA	NA	NA
2-Methylphenol	--	--	--	ug/L	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U	NA	52 U	NA	NA	NA	NA	NA	NA
2-Nitroaniline	--	--	--	ug/L	19 U	190 U	NA	480 U	190 U	190 U	1,000 U	74 U	NA	210 U	NA	NA	NA	NA	NA	NA
2-Nitrophenol	20	58	--	ug/L	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U	NA	52 U	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	1.1	4.3	0.3	ug/L	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U	NA	52 U	NA	NA	NA	NA	NA	NA
3-Nitroaniline	--	--	--	ug/L	19 U	190 U	NA	480 U	190 U	190 U	1,000 U	74 U	NA	210 U	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	20	20	--	ug/L	19 U	190 U	NA	480 U	190 U	190 U	1,000 U	74 U	NA	210 U	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	--	--	--	ug/L	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U	NA	52 U	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	150	420	7.4	ug/L	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U	NA	52 U	NA	NA	NA	NA	NA	NA
4-Chloroaniline	--	--	--	ug/L	1.9 U	19 U	NA	48 U	19 U	19 U	100 U	7.4 U	NA	21 U	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	--	--	--	ug/L	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U	NA	52 U	NA	NA	NA	NA	NA	NA
4-Methylphenol	--	--	--	ug/L	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U	NA	52 U	NA	NA	NA	NA	NA	NA
4-Nitroaniline	--	--	--	ug/L	19 U	190 U	NA	480 U	190 U	190 U	1,000 U	74 U	NA	210 U	NA	NA	NA	NA	NA	NA
4-Nitrophenol	--	--	--	ug/L	19 U	190 U	NA	480 U	190 U	190 U	1,000 U	74 U	NA	210 U	NA	NA	NA	NA	NA	NA
Acenaphthene	1,300	3,800	38	ug/L	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U	NA	52 U	NA	NA	NA	NA	NA	NA
Acenaphthylene	52	150	--	ug/L	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U	NA	52 U	NA	NA	NA	NA	NA	NA
Acetophenone	1,500	4,400	--	ug/L	0.95 U	9.6 U	NA	24 U	9.5 U	9.5 U	50 U	3.7 U	NA	10 U	NA	NA	NA	NA	NA	NA
Anthracene	43	43	--	ug/L	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U	NA	52 U	NA	NA	NA	NA	NA	NA
Atrazine	3	3	7.3	ug/L	0.95 U*	9.6 U	NA	24 U	9.5 U	9.5 U	50 U	3.7 U	NA	10 U	NA	NA	NA	NA	NA	NA
Benzaldehyde	--	--	--	ug/L	0.95 U	9.6 U	NA	24 U	9.5 U*	9.5 U	50 U	3.7 U	NA	10 U*	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	2.1	8.5	--	ug/L	0.95 U	9.6 U	NA	24 U	9.5 U	9.5 U	50 U	3.7 U	NA	10 U	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	5	5	--	ug/L	0.95 U	9.6 U	NA	24 U	9.5 U	9.5 U	50 U	3.7 U	NA	10 U	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	1.5	1.5	--	ug/L	0.95 U	9.6 U	NA	24 U	9.5 U	9.5 U	50 U	3.7 U	NA	10 U	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	1	1	--	ug/L	0.95 U	9.6 U	NA	24 U	9.5 U	9.5 U	50 U	3.7 U	NA	10 U	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1	1	--	ug/L	0.95 U	9.6 U	NA	24 U	9.5 U	9.5 U	50 U	3.7 U	NA	10 U	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	--	--	--	ug/L	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U	NA	52 U	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	2	8.3	1	ug/L	0.95 U	9.6 U	NA	24 U	9.5 U	9.5 U	50 U	3.7 U	NA	10 U	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	6	6	25	ug/L	4.8 U	1.8 J	NA	25 U	48 U	48 U	250 U	19 U	NA	3.4 JB	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	1,200	2,700	67	ug/L	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U	NA	52 U	NA	NA	NA	NA	NA	NA
Caprolactam	5,800	17,000	--	ug/L	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U	NA	4.7 JB	NA	NA	NA	NA	NA	NA
Carbazole	85	350	10	ug/L	9.5 U	96 U	NA	11 J	95 U	95 U	2.0 J	37 U	NA							

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	TW10-01 06/24/13	TW10-01 12/03/13	TW10-01 09/19/16	TW10-02 10/04/12	TW10-02 02/19/13	TW10-02 06/25/13	TW10-02 12/03/13	TW10-02 05/18/16	TW-MD-01 07/30/14	TW-MD-01 09/04/14	TW-MD-01 02/11/15	TW-MD-01 03/31/15	TW-MD-01 05/20/15	TW-MD-01 12/21/16	TW-MD-01 12/21/16
					TW-10-01_062413	TW10-01_20131203	TW-10-01_091916	TW-10-02_100412	TW-10-02_021913	TW-10-02_062513	TW10-02_20131203	TW-10-02-GW-051816	TW-MD-01(073014)	TW-MD-01_090414	TW-MD-01 (02112015)	TW-MD-01 (03312015)	TW-MD-01_05202015	TWMD-01-GW-122116	TWMD-01-GW-122116DL
Diethylphthalate	5,500	16,000	110	ug/L	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U	NA	52 U	NA	NA	NA	NA	NA
Dimethylphthalate	73,000	210,000	--	ug/L	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U	NA	52 U	NA	NA	NA	NA	NA
Di-n-Butylphthalate	880	2,500	9.7	ug/L	4.8 U	48 UB	NA	120 U	48 U	48 U	250 U	19 U	NA	1.9 JB	NA	NA	NA	NA	NA
Di-n-Octylphthalate	130	380	--	ug/L	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U	NA	52 U	NA	NA	NA	NA	NA
Fluoranthene	210	210	1.6	ug/L	0.95 U	9.6 U	NA	24 U	9.5 U	9.5 U	50 U	3.7 U	NA	10 U	NA	NA	NA	NA	NA
Fluorene	880	2,000	12	ug/L	4.8 U	48 U	NA	16 J	1.2 J	48 U	2.1 J	1.1 J	NA	52 U	NA	NA	NA	NA	NA
Hexachlorobenzene	1	1	0.2	ug/L	0.19 U	1.9 U	NA	4.8 U	1.9 U	1.9 U	10 U	0.74 U	NA	2.1 U	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	50	50	--	ug/L	4.8 U	48 U	NA	120 U	48 U*	48 U	250 U	19 U	NA	52 U	NA	NA	NA	NA	NA
Hexachloroethane	7.3	21	6.7	ug/L	4.8 U	48 UJ	NA	120 U	48 U	48 U	250 UJ	19 U	NA	52 U	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	2	2	--	ug/L	1.9 U	19 U	NA	48 U	19 U	19 U	100 U	7.4 U	NA	21 U	NA	NA	NA	NA	NA
Isophorone	770	3,100	1,300	ug/L	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U	NA	52 U	NA	NA	NA	NA	NA
Nitrobenzene	3.4	9.6	180	ug/L	2.9 U	29 U	NA	71 U	29 U	29 U	150 U	11 U	NA	31 U	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	5	5	--	ug/L	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U	NA	52 U	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	270	1,100	--	ug/L	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U	NA	52 U	NA	NA	NA	NA	NA
Pentachlorophenol	1	1	--	ug/L	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U	NA	52 U	NA	NA	NA	NA	NA
Phenanthrene	52	150	2	ug/L	1.9 U	19 U	NA	18 J	19 U	19 U	3.0 J	7.4 U	NA	21 U	NA	NA	NA	NA	NA
Phenol	4,400	13,000	450	ug/L	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U	NA	52 U	NA	NA	NA	NA	NA
Pyrene	140	140	--	ug/L	4.8 U	48 U	NA	120 U	48 U	48 U	250 U	19 U	NA	52 U	NA	NA	NA	NA	NA
Hexachloro-1,3-Butadiene	15	42	0.053	ug/L	0.95 U	9.6 UJ	NA	24 U	9.5 U	9.5 U	50 UJ	3.7 U	NA	10 U	NA	NA	NA	NA	NA
Naphthalene	520	1,500	11	ug/L	4.8 U	48 U	NA	73 J	3.5 J	48 U	9.7 J	3.5 J	NA	52 U	NA	NA	NA	NA	NA
Inorganics																			
Antimony	6	6	130	ug/L	2.0 U	NA	NA	2.0 UB	0.098 J	2.0 U	NA	2.0 U	0.35 JB	NA	2.0 U	0.21 J	0.22 J [2 U]	NA	NA
Arsenic	10	10	10	ug/L	2.1 B	1.5 J	NA	58	71	77 B	73 J	71	3.4 B	NA	1.2 J	1.4 JB	3.5 B [2.1 B]	NA	NA
Barium	2,000	2,000	--	ug/L	310 B	290 J	NA	210 B	160 B	180 B	170 J	180 B	110 B	NA	91 B	92	93 [93]	NA	NA
Beryllium	4	4	--	ug/L	1.0 U	NA	NA	1.0 U	0.037 J	0.062 J	NA	0.11 JB	0.10 J	NA	1.0 U	0.10 J	0.29 J [0.071 JB]	NA	NA
Cadmium	5	5	--	ug/L	0.50 U	0.052 J	NA	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	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	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	100	100	11	ug/L	2.1	2.1 J	NA	2.1	2.1	1.5 JB	0.89 J	0.71 J	0.43 JB	NA	1.5 JB	1.3 JB	1.6 JB [1.4 JB]	NA	NA
Cobalt	40	100	100	ug/L	1.3	NA	NA	7.2	8.1 B	8.0 B	NA	7.5	0.54 J	NA	0.38 J	0.42 JB	0.41 J [0.36 JB]	NA	NA
Copper	1,000	1,000	--	ug/L	0.88 JB	NA	NA	2.0 UB	1.3 J	0.87 JB	NA	2.0 U	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	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	300	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	4	4	--	ug/L	0.15 J	1.0 UBJ	NA	0.18 J	0.21 JB	0.19 JB	1.0 UJ	1.0 U	0.39 JB	NA	1.0 U	1.0 U	0.38 JB [0.11 JB]	NA	NA
Magnesium	400,000	1,100,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	50	--	ug/L	120	NA	NA	380	400 B	440 B	NA	490	1,200	NA	1,000	1,200	1,100 [1,200]	NA	NA
Mercury	2	2	0.0013	ug/L	0.20 U	0.20 U	NA	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NA	0.20 U	0.20 U	0.20 U [0.2 U]	NA	NA
Nickel	100	100	--	ug/L	2.9	NA	NA	21	20	23 B	NA	18 B	1.8 JB	NA	1.3 J	1.1 J	1.4 JB [1.2 JB]	NA	NA
Selenium	50	50	5	ug/L	2.0 U	2.0 U	NA	0.63 J	2.0	1.4 J	0.55 J	0.50 J	0.47 J	NA	0.31 J	0.57 J	1.8 J [0.34 J]	NA	NA
Silver	34	98	0.2	ug/L	0.20 U	0.20 U	NA	0.20 U	0.20 U	0.012 JB	0.20 U	0.20 U	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	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	0.17 J [1 U]	NA	NA
Vanadium	4.5	62	27	ug/L	0.88 J	NA	NA	1.3 J	1.9 J	1.6 JB	NA	1.5 J	4.0 U	NA	0.55 JB	0.78 JB	1.7 JB [1.8 JB]	NA	NA
Zinc	2,400	5,000	--	ug/L	2.4 JB	NA	NA	10 UB	2.5 J	8.3 JB	NA	10 U	10 U	NA	10 U	10 U	10 U [10 U]	NA	NA
Inorganics-Filtered																			
Antimony (dissolved)	6	6	130	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.0 U	2.0 U	2.0 U [2 U]	NA	NA
Arsenic (dissolved)	10	10	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.1 J	1.3 JB	1.8 JB [2 JB]	NA	NA
Barium (dissolved)	2,000	2,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	88 B	87	88 [92]	NA	NA
Beryllium (dissolved)	4	4	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	0.084 J^	1.0 U [0.059 JB]	NA	NA
Cadmium (dissolved)	5	5	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.15 JB	0.11 JB	1.0 U [0.065 J]	NA	NA
Chromium (dissolved)	100	100	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.5 JB	1.3 JB	1.4 JB [1.4 JB]	NA	NA
Cobalt (dissolved)	40	100	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.31 J	0.35 JB	0.37 JB [0.37 JB]	NA	NA
Copper (dissolved)	1,000	1,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.0 U	2.0 U	2.0 U [2 U]	NA	NA
Iron (dissolved)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	13,000 B	NA	13,000	14,000	13,000 B [14,000 B]	NA	NA
Lead (dissolved)	4	4	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U [1 U]	NA	NA
Manganese (dissolved)	50	50	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	1,200	NA	990	1,100 ^	1,100 [1,200]	NA	NA
Mercury (dissolved)	--	--	0.0013	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.00080 [0.00023 J]	NA	NA
Nickel (dissolved)	100	100	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	NA	NA	5.0 U	0.52 J	0.25 J [0.42 J]	NA	NA
Silver (dissolved)	34	98	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	NA	NA	2.0 U	2.0 U	2.0 U [2 U]	NA	NA
Vanadium (dissolved)	4.5	62	27	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.47 JB	0.58 JB	1.6 JB [1.7 JB]	NA	NA
Zinc (dissolved)	2,400	5,000	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20 U	20 U	20 U [20 U]	NA	NA
Miscellaneous																			
Alkalinity, total (as CaCO3)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (water)	--	--	--	none	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA
Total Suspended Solids	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field																			

See Notes on last page.

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	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	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
Conductivity, field	--	--	--	mS/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity, field	--	--	--	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved oxygen (DO), field	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation reduction potential (ORP), field	--	--	--	millivolts	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, ambient	--	--	--	deg f	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, field	--	--	--	deg c	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity (field)	--	--	--	NTU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans																			
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	--	pg/L	95 U	NA	NA	NA	19 JB	13 Jq	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	--	--	--	pg/L	95 U	NA	NA	NA	42 JB	39 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDD	--	--	--	pg/L	48 U	NA	NA	NA	9.8 JB	8.8 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	--	--	--	pg/L	48 U	NA	NA	NA	21 JB	16 Jq	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	--	--	--	pg/L	48 U	NA	NA	NA	50 U	48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDD	--	--	--	pg/L	48 U	NA	NA	NA	50 U	48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDF	--	--	--	pg/L	48 U	NA	NA	NA	50 U	48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDD	--	--	--	pg/L	48 U	NA	NA	NA	1.2 JBq	48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDF	--	--	--	pg/L	48 U	NA	NA	NA	50 U	48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDD	--	--	--	pg/L	48 U	NA	NA	NA	50 U	48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDF	--	--	--	pg/L	48 U	NA	NA	NA	50 U	48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDD	--	--	--	pg/L	48 U	NA	NA	NA	50 U	48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDF	--	--	--	pg/L	48 U	NA	NA	NA	50 U	48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,4,6,7,8-HxCDF	--	--	--	pg/L	48 U	NA	NA	NA	50 U	48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,4,7,8-PeCDF	--	--	--	pg/L	48 U	NA	NA	NA	50 U	48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD	30	30	10	pg/L	9.5 U	NA	NA	NA	9.9 U	9.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDF	--	--	--	pg/L	9.5 U	NA	NA	NA	9.9 U	9.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total heptachlorodibenzofuran (HpCDF)	--	--	--	pg/L	48 U	NA	NA	NA	60 B	52 q	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total heptachlorodibenzo-p-dioxin (HpCDD)	--	--	--	pg/L	48 U	NA	NA	NA	22 JB	21 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total hexachlorodibenzofuran (HxCDF)	--	--	--	pg/L	48 U	NA	NA	NA	19 JBq	17 Jq	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total hexachlorodibenzo-p-dioxin (HxCDD)	--	--	--	pg/L	48 U	NA	NA	NA	6.0 JBq	2.3 Jq	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total pentachlorodibenzofuran (PeCDF)	--	--	--	pg/L	48 U	NA	NA	NA	50 U	48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total pentachlorodibenzo-p-dioxin (PeCDD)	--	--	--	pg/L	48 U	NA	NA	NA	50 U	48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total TCDF	--	--	--	pg/L	9.5 U	NA	NA	NA	NA	9.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzofuran (TCDF)	--	--	--	pg/L	NA	NA	NA	NA	9.9 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzo-p-dioxin (TCDD)	--	--	--	pg/L	9.5 U	NA	NA	NA	9.9 U	9.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 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	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	
PCBs																			
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	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	0.097 U	0.095 U	0.095 U	0.095 U	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	0.097 U	0.095 U	0.095 U	0.095 U	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	0.097 U	0.095 U	0.095 U	0.095 U	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	0.097 U	0.095 U	0.095 U	0.095 U	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	0.097 U	0.095 U	0.095 U	0.095 U	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	0.097 U	0.095 U	0.095 U	0.095 U	NA	NA	0.10 U	0.11 U	0.095 U [0.097 U]	0.095 U	0.095 U	
PCBs-Filtered																			
Aroclor-1016 (PCB-1016) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	0.096 U	0.095 U	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	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	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	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	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	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	NA	NA	NA	NA	NA	0.096 U	0.095 U	
Volatile Organics																			
1,2,3-Trimethylbenzene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	260	750	19	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	2.6	11	2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	7.3	21	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	--	--	--	ug/L	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	95	270	11,000	ug/L	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA
Acetone	730	2,100	1,700	ug/L	50 U	NA	NA	7.5 J	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA
Benzene	5	5	200	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA
Bromobenzene	18	50	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	80	80	--	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA
Bromoform	80	80	--	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA
Bromomethane	10	29	35	ug/L	5 U	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA
2-Butanone	13,000	38,000	2,200	ug/L	25 U	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA
n-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	800	2,300	--	ug/L	5 U	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA
Carbon Tetrachloride	5	5	45	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA
CFC-11	2,600	7,300	--	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA
CFC-12	1,700	4,800	--	ug/L	5 U	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA
Chlorobenzene	100	100	25	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA
Chlorobromomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorodibromomethane	80	80	--	ug/L	5 U	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA
Chloroethane	430	1,700	1,100	ug/L	5 U	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA
Chloroform	80	80	350	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA
Chloromethane	260	1,100	--	ug/L	5 U	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA
Cyclohexane	--	--	--	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA
Cymene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	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	NA	NA	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	NA	NA	NA	NA	1.0 U	NA	NA	NA
Dibromomethane	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	1.0 U	NA	NA	NA
1,3-Dichlorobenzene	6.6	19	28	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	1.0 U	NA	NA	NA
1,1-Dichloroethane	880	2,500	740	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA	NA	NA	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	NA	NA	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	NA	NA	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	NA	NA	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	NA	NA	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	NA	NA	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	NA	NA	NA	NA	1.0 U	NA	NA	NA
cis-1,3-Dichloropropene	--	--	--	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA
trans-1,3-Dichloropropene	--	--	--	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA
Diethyl Ether	10	10	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	7.2	350	2,800	ug/L	3 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	74	74	18	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA
Isopropylbenzene	800	2,300	28	ug/L	1 U	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA	NA
Methyl acetate	--	--	--	ug/L	10 U	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA
Methyl N-Butyl Ketone	1,000	2,900	--	ug/L	50 U	NA	NA	50 U	NA	NA	NA	NA	NA	NA	NA	50 U	NA	NA	NA

See Notes on last page.

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	TW-MD-01 04/26/17	TW-MD-01 05/24/17	TW-MD-02 07/29/14	TW-MD-02 09/04/14	TW-MD-02 02/11/15	TW-MD-02 03/31/15	TW-MD-02 05/20/15	TW-MD-02 05/24/17	TW-MD-02 08/17/17	TW-MD-03 07/29/14	TW-MD-03 09/04/14	TW-MD-03 02/18/15	TW-MD-03 03/31/15	TW-MD-03 05/20/15
	TW-MD-01 GW-042617	TW-MD-01 GW-052417	TW-MD-02 072914		TW-MD-02 090414	TW-MD-02 02112015	TW-MD-02 03312015	TW-MD-02 05202015	TW-MD-02 GW-052417	TW-MD-02 GW-081717	TW-MD-03 072914	TW-MD-03 090414	TW-MD-03 02182015	TW-MD-03 03312015	TW-MD-03 05202015			
Methylcyclohexane	--	--	--	ug/L	1 U	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA
4-Methyl-2-pentanone	1,800	5,200	--	ug/L	50 U	NA	NA	50 U	NA	NA	NA	NA	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	NA	NA	NA	5.0 U	NA	NA	NA
Naphthalene	520	1,500	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	100	80	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA
1,1,1,2-Tetrachloroethane	77	320	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	8.5	35	78	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA
Tetrachloroethene	5	5	60	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA
Toluene	790	790	270	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA
1,2,3-Trichlorobenzene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	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	NA	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	NA	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	NA	NA	NA	1.0 U	NA	NA	NA
Trichloroethene	5	5	200	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA
1,2,3-Trichloropropane	42	120	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	170,000	170,000	32	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA
1,2,4-Trimethylbenzene	63	63	17	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	72	72	45	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	2	2	13	ug/L	1 U	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA
o-Xylene	--	--	--	ug/L	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	280	280	41	ug/L	NA	NA	NA	2.0 U	NA	NA	NA	NA	NA	NA	2.0 U	NA	NA	NA
Semivolatile Organics																		
1,1'-Biphenyl	--	--	--	ug/L	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	--	--	--	ug/L	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA	NA
2,4,5-Trichlorophenol	730	2,100	--	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA
2,4,6-Trichlorophenol	120	470	5	ug/L	NA	NA	NA	40 U	NA	NA	NA	NA	NA	NA	38 U	NA	NA	NA
2,4-Dichlorophenol	73	210	11	ug/L	NA	NA	NA	100 U	NA	NA	NA	NA	NA	NA	96 U	NA	NA	NA
2,4-Dimethylphenol	370	1,000	380	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA
2,4-Dinitrophenol	--	--	--	ug/L	NA	NA	NA	200 U	NA	NA	NA	NA	NA	NA	190 U	NA	NA	NA
2,4-Dinitrotoluene	7.7	32	--	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA
2,6-Dinitrotoluene	--	--	--	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA
2-Chloronaphthalene	1,800	5,200	--	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA
2-Chlorophenol	45	130	18	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA
2-Methylnaphthalene	260	750	19	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA
2-Methylphenol	--	--	--	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA
2-Nitroaniline	--	--	--	ug/L	NA	NA	NA	200 U	NA	NA	NA	NA	NA	NA	190 U	NA	NA	NA
2-Nitrophenol	20	58	--	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA
3,3'-Dichlorobenzidine	1.1	4.3	0.3	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA
3-Nitroaniline	--	--	--	ug/L	NA	NA	NA	200 U	NA	NA	NA	NA	NA	NA	190 U	NA	NA	NA
4,6-Dinitro-2-methylphenol	20	20	--	ug/L	NA	NA	NA	200 U	NA	NA	NA	NA	NA	NA	190 U	NA	NA	NA
4-Bromophenyl-phenylether	--	--	--	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA
4-Chloro-3-Methylphenol	150	420	7.4	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA
4-Chloroaniline	--	--	--	ug/L	NA	NA	NA	20 U	NA	NA	NA	NA	NA	NA	19 U	NA	NA	NA
4-Chlorophenyl-phenylether	--	--	--	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA
4-Methylphenol	--	--	--	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA
4-Nitroaniline	--	--	--	ug/L	NA	NA	NA	200 U	NA	NA	NA	NA	NA	NA	190 U	NA	NA	NA
4-Nitrophenol	--	--	--	ug/L	NA	NA	NA	200 U	NA	NA	NA	NA	NA	NA	190 U	NA	NA	NA
Acenaphthene	1,300	3,800	38	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA
Acenaphthylene	52	150	--	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA
Acetophenone	1,500	4,400	--	ug/L	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA	NA
Anthracene	43	43	--	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA
Atrazine	3	3	7.3	ug/L	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA	NA
Benzaldehyde	--	--	--	ug/L	NA	NA	NA	10 U*	NA	NA	NA	NA	NA	NA	9.6 U*	NA	NA	NA
Benzo(a)anthracene	2.1	8.5	--	ug/L	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA	NA
Benzo(a)pyrene	5	5	--	ug/L	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA	NA
Benzo(b)fluoranthene	1.5	1.5	--	ug/L	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA	NA
Benzo(g,h,i)perylene	1	1	--	ug/L	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA	NA
Benzo(k)fluoranthene	1	1	--	ug/L	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA	NA
bis(2-Chloroethoxy)methane	--	--	--	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA
bis(2-Chloroethyl)ether	2	8.3	1	ug/L	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA	NA
bis(2-Ethylhexyl)phthalate	6	6	25	ug/L	NA	NA	NA	2.9 JB	NA	NA	NA	NA	NA	NA	2.5 JB	NA	NA	NA
Butylbenzylphthalate	1,200	2,700	67	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA
Caprolactam	5,800	17,000	--	ug/L	NA	NA	NA	4.8 JB	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA
Carbazole	85	350	10	ug/L	NA	NA	NA	100 U	NA	NA	NA	NA	NA	NA	96 U	NA	NA	NA
Chrysene	1.6	1.6	--	ug/L	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA	NA
Dibenzo(a,h)anthracene	2	2	--	ug/L	NA	NA	NA	20 U	NA	NA	NA	NA	NA	NA	19 U	NA	NA	NA
Dibenzofuran	--	--	4	ug/L	NA	NA	NA	40 U	NA	NA	NA	NA	NA	NA	38 U	NA	NA	NA

See Notes on last page.

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	TW-MD-01 04/26/17	TW-MD-01 05/24/17	TW-MD-02 07/29/14	TW-MD-02 09/04/14	TW-MD-02 02/11/15	TW-MD-02 03/31/15	TW-MD-02 05/20/15	TW-MD-02 05/24/17	TW-MD-02 08/17/17	TW-MD-03 07/29/14	TW-MD-03 09/04/14	TW-MD-03 02/18/15	TW-MD-03 03/31/15	TW-MD-03 05/20/15
					TW-MD-01_GW-042617	TW-MD-01_GW-052417	TW-MD-02_072914	TW-MD-02_090414	TW-MD-02_02112015	TW-MD-02_03312015	TW-MD-02_05202015	TW-MD-02_GW-052417	TW-MD-02_GW-081717	TW-MD-03_072914	TW-MD-03_090414	TW-MD-03_02182015	TW-MD-03_03312015	TW-MD-03_05202015
Diethylphthalate	5,500	16,000	110	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA
Dimethylphthalate	73,000	210,000	--	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA
Di-n-Butylphthalate	880	2,500	9.7	ug/L	NA	NA	NA	1.7 JB	NA	NA	NA	NA	NA	NA	0.76 JB	NA	NA	NA
Di-n-Octylphthalate	130	380	--	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	210	210	1.6	ug/L	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA	NA
Fluorene	880	2,000	12	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA
Hexachlorobenzene	1	1	0.2	ug/L	NA	NA	NA	2.0 U	NA	NA	NA	NA	NA	NA	1.9 U	NA	NA	NA
Hexachlorocyclopentadiene	50	50	--	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA
Hexachloroethane	7.3	21	6.7	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA
Indeno(1,2,3-cd)pyrene	2	2	--	ug/L	NA	NA	NA	20 U	NA	NA	NA	NA	NA	NA	19 U	NA	NA	NA
Isophorone	770	3,100	1,300	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA
Nitrobenzene	3.4	9.6	180	ug/L	NA	NA	NA	30 U	NA	NA	NA	NA	NA	NA	29 U	NA	NA	NA
N-Nitroso-di-n-propylamine	5	5	--	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA
N-Nitrosodiphenylamine	270	1,100	--	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA
Pentachlorophenol	1	1	--	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA
Phenanthrene	52	150	2	ug/L	NA	NA	NA	20 U	NA	NA	NA	NA	NA	NA	19 U	NA	NA	NA
Phenol	4,400	13,000	450	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA
Pyrene	140	140	--	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA
Hexachloro-1,3-Butadiene	15	42	0.053	ug/L	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA	NA
Naphthalene	520	1,500	11	ug/L	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA
Inorganics																		
Antimony	6	6	130	ug/L	NA	NA	0.16 J	NA	2.0 U	2.0 U	2.0 U	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	4.9 B	NA	4.1	3.4 B	6.0 B	NA	NA	2.3 B	NA	3.3 [3.2]	3.2 B	3.8 B
Barium	2,000	2,000	--	ug/L	NA	NA	160 B	NA	110 B	160	130	NA	NA	180 B	NA	280 [270]	210	190
Beryllium	4	4	--	ug/L	NA	NA	0.21 J	NA	1.0 U	0.067 J	1.0 U	NA	NA	0.14 J	NA	1.0 U [0.43 JB]	0.069 J	0.061 JB
Cadmium	5	5	--	ug/L	NA	NA	0.50 U	NA	0.17 JB	0.16 JB	0.50 U	NA	NA	0.50 U	NA	0.21 J [0.5 U]	0.11 JB	0.50 U
Calcium	--	--	--	ug/L	NA	124,000	NA	NA	NA	NA	NA	106,000	NA	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	NA	NA	0.60 JB	NA	2.0 B [1.9 JB]	1.6 JB	1.9 JB
Cobalt	40	100	100	ug/L	NA	NA	0.54 J	NA	1.6	1.0 B	0.99 JB	NA	NA	1.0	NA	0.96 JB [0.76 JB]	0.71 JB	0.77 JB
Copper	1,000	1,000	--	ug/L	NA	NA	0.68 JB	NA	2.0 U	2.0 U	2.0 U	NA	NA	1.0 JB	NA	0.88 J [2 U]	2.0 U	1.4 JB
Cyanide (total)	--	--	--	ug/L	NA	NA	2.9 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	300	--	ug/L	NA	7,220	NA	NA	NA	NA	NA	14,000	14,400	NA	NA	NA	NA	NA
Lead	4	4	--	ug/L	NA	4	0.59 JB	NA	0.56 J	1.0 U	0.13 JB	NA	NA	0.66 JB	NA	0.49 JB* [0.24 JB*]	0.12 J	0.76 JB
Magnesium	400,000	1,100,000	--	ug/L	NA	36,000	NA	NA	NA	NA	NA	23,200	NA	NA	NA	NA	NA	NA
Manganese	50	50	--	ug/L	NA	971	1,400	NA	1,900	1,400	1,300	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	0.20 U	0.20 U	NA	NA	0.20 U	NA	0.20 U [0.2 U]	0.20 U	0.20 U
Nickel	100	100	--	ug/L	NA	NA	2.7	NA	8.4	4.5	4.3 B	NA	NA	4.2	NA	2.0 [1.9 J]	1.9 J	2.4 B
Selenium	50	50	5	ug/L	NA	NA	2.0 U	NA	0.29 J	0.42 J	2.0 U	NA	NA	0.47 J	NA	0.54 J [2 U]	0.62 J	0.29 J
Silver	34	98	0.2	ug/L	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	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	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	NA	0.22 J* [1 U*]	1.0 U	1.0 U
Vanadium	4.5	62	27	ug/L	NA	NA	0.19 J	NA	0.61 JB	0.78 JB	1.5 JB	NA	NA	4.0 U	NA	1.1 JB [0.59 JB]	0.74 JB	1.9 JB
Zinc	2,400	5,000	--	ug/L	NA	NA	10 U	NA	10 U	10 U	10 U	NA	NA	4.9 J	NA	10 U [10 U]	10 U	10 U
Inorganics-Filtered																		
Antimony (dissolved)	6	6	130	ug/L	NA	NA	NA	NA	2.0 U	0.25 J	2.0 U	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	3.4 J	3.4 JB	5.0 B	NA	NA	NA	NA	2.9 J [2.9 J]	3.0 JB	3.8 JB
Barium (dissolved)	2,000	2,000	--	ug/L	NA	NA	NA	NA	120 B	160	140	NA	NA	NA	NA	230 [230]	190	170
Beryllium (dissolved)	4	4	--	ug/L	NA	NA	NA	NA	1.0 U	0.092 J	1.0 U	NA	NA	NA	NA	1.0 U [0.35 JB]	0.058 J	1.0 U
Cadmium (dissolved)	5	5	--	ug/L	NA	NA	NA	NA	0.18 JB	0.14 JB	1.0 U	NA	NA	NA	NA	1.0 U [0.67 JB]	0.087 JB	1.0 U
Chromium (dissolved)	100	100	11	ug/L	NA	NA	NA	NA	1.7 JB	1.5 JB	1.5 JB	NA	NA	NA	NA	1.7 JB [2 B]	1.6 JB	1.7 JB
Cobalt (dissolved)	40	100	100	ug/L	NA	NA	NA	NA	1.2	0.92 JB	0.86 JB	NA	NA	NA	NA	0.82 JB [0.82 JB]	0.66 JB	0.75 JB
Copper (dissolved)	1,000	1,000	--	ug/L	NA	NA	NA	NA	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA	2.0 U [2 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	13,500	14,200	6,400 B	NA	20,000 B [19,000 B]	17,000	15,000 B
Lead (dissolved)	4	4	--	ug/L	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	0.23 JB* [0.15 JB*]	1.0 U	1.0 U
Manganese (dissolved)	50	50	--	ug/L	NA	NA	1,300	NA	1,700	1,300 ^	1,300	NA	NA	1,200	NA	980 [960]	740 ^	680
Mercury (dissolved)	--	--	0.0013	ug/L	NA	NA	NA	NA	0.20 U	0.20 U	0.00075	NA	NA	NA	NA	0.20 U [0.2 U]	0.20 U	0.0014
Nickel (dissolved)	100	100	--	ug/L	NA	NA	NA	NA	6.0	4.2	3.5 B	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	0.45 J	0.31 J	NA	NA	NA	NA	5.0 U [5 U]	0.46 J	0.29 J
Silver (dissolved)	34	98	0.2	ug/L	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	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	2.0 U	2.0 U	NA	NA	NA	NA	2.0 U* [2 U*]	2.0 U	2.0 U
Vanadium (dissolved)	4.5	62	27	ug/L	NA	NA	NA	NA	0.59 JB	0.76 JB	1.5 JB	NA	NA	NA	NA	0.38 JB [0.26 JB]	0.67 JB	1.7 JB
Zinc (dissolved)	2,400	5,000	--	ug/L	NA	NA	NA	NA	20 U	20 U	20 U	NA	NA	NA	NA	20 U [20 U]	20 U	20 U
Miscellaneous																		
Alkalinity, total (as CaCO3)	--	--	--	ug/L	NA	438	560 B	NA	NA	NA	NA	484	NA	NA	NA	NA	NA	NA
Hardness	--	--	--	ug/L	NA	441	NA	NA	NA	NA	NA	357	NA	NA	NA	NA	NA	NA
pH (water)	--	--	--	none	NA	NA	7.28 H	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	500,000	500,000	--	ug/L	NA	714	680	NA	NA	NA	NA	678	NA	NA	NA	NA	NA	NA
Total Suspended Solids	--	--	--	ug/L	NA	10	NA	NA	NA	NA	NA	27	NA	NA	NA	NA	NA	NA
Field																		

See Notes on last page.

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 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	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
Conductivity, field	--	--	--	mS/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity, field	--	--	--	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved oxygen (DO), field	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation reduction potential (ORP), field	--	--	--	millivolts	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, ambient	--	--	--	deg f	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, field	--	--	--	deg c	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity (field)	--	--	--	NTU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans																		
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
2,3,4,6,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
2,3,7,8-TCDD	30	30	10	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
Total heptachlorodibenzofuran (HpCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
Total hexachlorodibenzofuran (HxCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
Total pentachlorodibenzofuran (PeCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
Total TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzofuran (TCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 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	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
PCBs																		
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	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	NA	NA	NA	0.10 U [0.097 U]	0.10 U [0.098 U]	0.095 U	0.10 U	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	NA	NA	NA	0.10 U [0.097 U]	0.10 U [0.098 U]	0.095 U	0.10 U	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	NA	NA	NA	0.10 U [0.097 U]	0.10 U [0.098 U]	0.095 U	0.10 U	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	NA	NA	NA	0.10 U [0.097 U]	0.10 U [0.098 U]	0.095 U	0.10 U	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	NA	NA	NA	0.10 U [0.097 U]	0.10 U [0.098 U]	0.095 U	0.10 U	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	NA	NA	NA	0.10 U [0.097 U]	0.10 U [0.098 U]	0.095 U	0.10 U	0.099 U	0.1 U	NA	0.099 U	0.10 U	0.097 U	0.10 U
PCBs-Filtered																		
Aroclor-1016 (PCB-1016) (dissolved)	0.5	0.5	0.2	ug/L	NA	NA	NA	NA	NA	NA	0.098 U	0.096 U	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	0.098 U	0.096 U	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	0.098 U	0.096 U	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	0.098 U	0.096 U	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	0.098 U	0.096 U	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	0.098 U	0.096 U	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	0.098 U	0.096 U	NA	NA	NA	NA	NA	NA
Volatile Organics																		
1,2,3-Trimethylbenzene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	260	750	19	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	2.6	11	2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	7.3	21	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	--	--	--	ug/L	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	95	270	11,000	ug/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
Acetone	730	2,100	1,700	ug/L	50 U	NA	NA	NA	25 U [25 U]	NA	NA	NA	NA	NA	NA	4.2 J	NA	NA
Benzene	5	5	200	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
Bromobenzene	18	50	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	80	80	--	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
Bromoform	80	80	--	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
Bromomethane	10	29	35	ug/L	5 U	NA	NA	NA	1.0 U [1 U]	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
2-Butanone	13,000	38,000	2,200	ug/L	25 U	NA	NA	NA	25 U [25 U]	NA	NA	NA	NA	NA	NA	25 U	NA	NA
n-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	800	2,300	--	ug/L	5 U	NA	NA	NA	5.0 U [5 U]	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA
Carbon Tetrachloride	5	5	45	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
CFC-11	2,600	7,300	--	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
CFC-12	1,700	4,800	--	ug/L	5 U	NA	NA	NA	1.0 U [1 U]	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
Chlorobenzene	100	100	25	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
Chlorobromomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorodibromomethane	80	80	--	ug/L	5 U	NA	NA	NA	1.0 U [1 U]	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
Chloroethane	430	1,700	1,100	ug/L	5 U	NA	NA	NA	1.0 U [1 U]	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
Chloroform	80	80	350	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
Chloromethane	260	1,100	--	ug/L	5 U	NA	NA	NA	1.0 U [1 U]	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
Cyclohexane	--	--	--	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
Cymene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	1.0 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	NA	NA	NA	NA	1.0 U	NA	NA
Dibromomethane	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	1.0 U	NA	NA
1,3-Dichlorobenzene	6.6	19	28	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
1,4-Dichlorobenzene	75	75	17	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
1,1-Dichloroethane	880	2,500	740	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
1,2-Dichloroethane	5	5	360	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
1,1-Dichloroethene	7	7	130	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
cis-1,2-Dichloroethene	70	70	620	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA	NA	NA	NA	NA	1.0 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	NA	NA	NA	NA	1.0 U	NA	NA
Dichloromethane	5	5	1,500	ug/L	5 U	NA	NA	NA	5.0 U [5 U]	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA
1,2-Dichloropropane	5	5	230	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
cis-1,3-Dichloropropene	--	--	--	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
trans-1,3-Dichloropropene	--	--	--	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
Diethyl Ether	10	10	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	7.2	350	2,800	ug/L	NA	5 UB	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	74	74	18	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
Isopropylbenzene	800	2,300	28	ug/L	1 U	NA	NA	NA	5.0 U [5 U]	NA	NA	NA	NA	NA	NA	5.0 U	NA	NA
Methyl acetate	--	--	--	ug/L	10 U	NA	NA	NA	10 U [10 U]	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Methyl N-Butyl Ketone	1,000	2,900	--	ug/L	50 U	NA	NA	NA	50 U [50 U]	NA	NA	NA	NA	NA	NA	50 U	NA	NA

See Notes on last page.

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	TW-MD-03	TW-MD-03	TW-MD-03	TW-MD-04	TW-MD-04	TW-MD-04	TW-MD-04	TW-MD-04	TW-MD-04	TW-MD-04	TW-MD-05	TW-MD-05	TW-MD-05	TW-MD-05	
					12/20/16	12/20/16	05/25/17	07/30/14	09/04/14	02/18/15	03/31/15	05/20/15	04/24/17	05/24/17	07/30/14	09/05/14	02/18/15	04/01/15	
Methylcyclohexane	--	--	--	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
4-Methyl-2-pentanone	1,800	5,200	--	ug/L	50 U	NA	NA	NA	50 U [50 U]	NA	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	5.0 U	NA	NA
Naphthalene	520	1,500	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	1.0 U	NA	NA
1,1,1,2-Tetrachloroethane	77	320	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	8.5	35	78	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
Tetrachloroethene	5	5	60	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
Toluene	790	790	270	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
1,2,3-Trichlorobenzene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	1.0 U	NA	NA
1,1,1-Trichloroethane	200	200	89	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
1,1,2-Trichloroethane	5	5	330	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
Trichloroethene	5	5	200	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
1,2,3-Trichloropropane	42	120	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	170,000	170,000	32	ug/L	1 U	NA	NA	NA	1.0 U [1 U]	NA	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA
1,2,4-Trimethylbenzene	63	63	17	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	72	72	45	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	1.0 U	NA	NA
o-Xylene	--	--	--	ug/L	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	280	280	41	ug/L	NA	NA	NA	NA	2.0 U [2 U]	NA	NA	NA	NA	NA	NA	NA	2.0 U	NA	NA
Semivolatile Organics																			
1,1'-Biphenyl	--	--	--	ug/L	NA	NA	NA	NA	9.6 U [9.6 U]	NA	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA
2,2'-Oxybis(1-Chloropropane)	--	--	--	ug/L	NA	NA	NA	NA	9.6 U [9.6 U]	NA	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA
2,4,5-Trichlorophenol	730	2,100	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA
2,4,6-Trichlorophenol	120	470	5	ug/L	NA	NA	NA	NA	38 U [38 U]	NA	NA	NA	NA	NA	NA	NA	38 U	NA	NA
2,4-Dichlorophenol	73	210	11	ug/L	NA	NA	NA	NA	96 U [96 U]	NA	NA	NA	NA	NA	NA	NA	96 U	NA	NA
2,4-Dimethylphenol	370	1,000	380	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA
2,4-Dinitrophenol	--	--	--	ug/L	NA	NA	NA	NA	190 U [190 U]	NA	NA	NA	NA	NA	NA	NA	190 U	NA	NA
2,4-Dinitrotoluene	7.7	32	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA
2,6-Dinitrotoluene	--	--	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA
2-Chloronaphthalene	1,800	5,200	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA
2-Chlorophenol	45	130	18	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA
2-Methylnaphthalene	260	750	19	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA
2-Methylphenol	--	--	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA
2-Nitroaniline	--	--	--	ug/L	NA	NA	NA	NA	190 U [190 U]	NA	NA	NA	NA	NA	NA	NA	190 U	NA	NA
2-Nitrophenol	20	58	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA
3,3'-Dichlorobenzidine	1.1	4.3	0.3	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA
3-Nitroaniline	--	--	--	ug/L	NA	NA	NA	NA	190 U [190 U]	NA	NA	NA	NA	NA	NA	NA	190 U	NA	NA
4,6-Dinitro-2-methylphenol	20	20	--	ug/L	NA	NA	NA	NA	190 U [190 U]	NA	NA	NA	NA	NA	NA	NA	190 U	NA	NA
4-Bromophenyl-phenylether	--	--	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA
4-Chloro-3-Methylphenol	150	420	7.4	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA
4-Chloroaniline	--	--	--	ug/L	NA	NA	NA	NA	19 U [19 U]	NA	NA	NA	NA	NA	NA	NA	19 U	NA	NA
4-Chlorophenyl-phenylether	--	--	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA
4-Methylphenol	--	--	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA
4-Nitroaniline	--	--	--	ug/L	NA	NA	NA	NA	190 U [190 U]	NA	NA	NA	NA	NA	NA	NA	190 U	NA	NA
4-Nitrophenol	--	--	--	ug/L	NA	NA	NA	NA	190 U [190 U]	NA	NA	NA	NA	NA	NA	NA	190 U	NA	NA
Acenaphthene	1,300	3,800	38	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA
Acenaphthylene	52	150	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA
Acetophenone	1,500	4,400	--	ug/L	NA	NA	NA	NA	9.6 U [9.6 U]	NA	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA
Anthracene	43	43	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA
Atrazine	3	3	7.3	ug/L	NA	NA	NA	NA	9.6 U [9.6 U]	NA	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA
Benzaldehyde	--	--	--	ug/L	NA	NA	NA	NA	9.6 U* [9.6 U*]	NA	NA	NA	NA	NA	NA	NA	9.6 U*	NA	NA
Benzo(a)anthracene	2.1	8.5	--	ug/L	NA	NA	NA	NA	9.6 U [9.6 U]	NA	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA
Benzo(a)pyrene	5	5	--	ug/L	NA	NA	NA	NA	9.6 U [9.6 U]	NA	NA	NA	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 [9.6 U]	NA	NA	NA	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 [9.6 U]	NA	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA
Benzo(k)fluoranthene	1	1	--	ug/L	NA	NA	NA	NA	9.6 U [9.6 U]	NA	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA
bis(2-Chloroethoxy)methane	--	--	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA
bis(2-Chloroethyl)ether	2	8.3	1	ug/L	NA	NA	NA	NA	9.6 U [9.6 U]	NA	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA
bis(2-Ethylhexyl)phthalate	6	6	25	ug/L	NA	NA	NA	NA	3.5 JB [2.3 JB]	NA	NA	NA	NA	NA	NA	NA	2.4 JB	NA	NA
Butylbenzylphthalate	1,200	2,700	67	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA
Caprolactam	5,800	17,000	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	NA
Carbazole	85	350	10	ug/L	NA	NA	NA	NA	96 U [96 U]	NA	NA	NA	NA	NA	NA	NA	96 U	NA	NA
Chrysene	1.6	1.6	--	ug/L	NA	NA	NA	NA	9.6 U [9.6 U]	NA	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA
Dibenzo(a,h)anthracene	2	2	--	ug/L	NA	NA	NA	NA	19 U [19 U]	NA	NA	NA	NA	NA	NA	NA	19 U	NA	NA
Dibenzofuran	--	--	4	ug/L	NA	NA	NA	NA	38 U [38 U]	NA	NA	NA	NA	NA	NA	NA	38 U	NA	NA

See Notes on last page.

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 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)	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)	
Diethylphthalate	5,500	16,000	110	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	
Dimethylphthalate	73,000	210,000	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	
Di-n-Butylphthalate	880	2,500	9.7	ug/L	NA	NA	NA	NA	2.8 JB [2.6 JB]	NA	NA	NA	NA	NA	NA	NA	1.4 JB	NA	
Di-n-Octylphthalate	130	380	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	
Fluoranthene	210	210	1.6	ug/L	NA	NA	NA	NA	9.6 U [9.6 U]	NA	NA	NA	NA	NA	NA	NA	9.6 U	NA	
Fluorene	880	2,000	12	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	
Hexachlorobenzene	1	1	0.2	ug/L	NA	NA	NA	NA	1.9 U [1.9 U]	NA	NA	NA	NA	NA	NA	NA	1.9 U	NA	
Hexachlorocyclopentadiene	50	50	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	
Hexachloroethane	7.3	21	6.7	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	
Indeno(1,2,3-cd)pyrene	2	2	--	ug/L	NA	NA	NA	NA	19 U [19 U]	NA	NA	NA	NA	NA	NA	NA	19 U	NA	
Isophorone	770	3,100	1,300	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	
Nitrobenzene	3.4	9.6	180	ug/L	NA	NA	NA	NA	29 U [29 U]	NA	NA	NA	NA	NA	NA	NA	29 U	NA	
N-Nitroso-di-n-propylamine	5	5	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	
N-Nitrosodiphenylamine	270	1,100	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	
Pentachlorophenol	1	1	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	
Phenanthrene	52	150	2	ug/L	NA	NA	NA	NA	19 U [19 U]	NA	NA	NA	NA	NA	NA	NA	19 U	NA	
Phenol	4,400	13,000	450	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	
Pyrene	140	140	--	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	
Hexachloro-1,3-Butadiene	15	42	0.053	ug/L	NA	NA	NA	NA	9.6 U [9.6 U]	NA	NA	NA	NA	NA	NA	NA	9.6 U	NA	
Naphthalene	520	1,500	11	ug/L	NA	NA	NA	NA	48 U [48 U]	NA	NA	NA	NA	NA	NA	NA	48 U	NA	
Inorganics																			
Antimony	6	6	130	ug/L	NA	NA	NA	0.27 JB [0.22 JB]	NA	2.0 U	2.0 U	2.0 U	NA	NA	0.40 JB	NA	2.0 U	0.50 J	
Arsenic	10	10	10	ug/L	NA	NA	NA	2.7 B [2.5 B]	NA	2.2	2.3 B	2.9 B	NA	NA	3.2 B	NA	1.9 J	2.4 B	
Barium	2,000	2,000	--	ug/L	NA	NA	NA	160 B [160 B]	NA	180	190	200	NA	NA	98 B	NA	81	87	
Beryllium	4	4	--	ug/L	NA	NA	NA	0.062 J [1 U]	NA	1.0 U	0.062 J	0.092 J	1.0 U	NA	0.054 J	NA	1 U	0.33 J	
Cadmium	5	5	--	ug/L	NA	NA	NA	0.50 U [0.5 U]	NA	0.072 J	0.084 JB	0.46 JB	0.5 U	NA	0.50 U	NA	0.50 U	0.35 JB	
Calcium	--	--	--	ug/L	NA	NA	79,000	NA	NA	NA	NA	NA	NA	48,800	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	2.3 B	5 U	NA	0.52 JB	NA	1.8 JB	1.6 JB	
Cobalt	40	100	100	ug/L	NA	NA	NA	1.6 [1.6]	NA	1.3 B	1.1 B	1.3 B	5 U	NA	0.84 J	NA	0.71 JB	0.76 J	
Copper	1,000	1,000	--	ug/L	NA	NA	NA	0.85 JB [0.82 JB]	NA	2.0 U	2.0 U	2.0 U	5 U	NA	0.62 JB	NA	2.0 U	2.0 U	
Cyanide (total)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.6 J	NA	NA	NA	
Iron	300	300	--	ug/L	NA	NA	9,490	NA	NA	NA	NA	NA	10,700	11,300	NA	NA	NA	NA	
Lead	4	4	--	ug/L	NA	NA	NA	0.45 JB [0.37 JB]	NA	0.29 JB*	1.0 U	0.29 JB	3 U	NA	0.70 JB	NA	0.41 JB*	0.29 JB	
Magnesium	400,000	1,100,000	--	ug/L	NA	NA	19,600	NA	NA	NA	NA	NA	NA	14,800	NA	NA	NA	NA	
Manganese	50	50	--	ug/L	NA	NA	520	1,300 [1,200]	NA	600	600	560	353	341	650	NA	360	380	
Mercury	2	2	0.0013	ug/L	NA	NA	NA	0.20 U [0.2 U]	NA	0.20 U	0.20 U	0.20 U	0.20 U	NA	0.20 U	NA	0.24	0.20 U	
Nickel	100	100	--	ug/L	NA	NA	NA	7.1 B [6.7 B]	NA	4.1	2.8	3.1	5 U	NA	3.1 B	NA	1.9 J	1.7 J	
Selenium	50	50	5	ug/L	NA	NA	NA	0.53 J [0.38 J]	NA	2.0 U	0.46 J	0.64 JB	5 U	NA	0.57 J	NA	2.0 U	0.73 J	
Silver	34	98	0.2	ug/L	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.20 U	5 U	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	0.077 JB	2 U	NA	1.0 U	NA	1.0 U*	0.21 J	
Vanadium	4.5	62	27	ug/L	NA	NA	NA	4.0 U [4 U]	NA	0.53 JB	0.87 JB	1.0 JB	5 U	NA	4.0 U	NA	0.70 JB	0.63 JB	
Zinc	2,400	5,000	--	ug/L	NA	NA	NA	2.5 JB [2.5 JB]	NA	10 U	10 U	10 U	5 U	NA	10 U	NA	10 U	10 U	
Inorganics-Filtered																			
Antimony (dissolved)	6	6	130	ug/L	NA	NA	NA	NA	NA	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA	2.0 U	0.24 J	
Arsenic (dissolved)	10	10	10	ug/L	NA	NA	NA	NA	NA	2.0 J	2.3 JB	2.7 JB	NA	NA	NA	NA	1.8 J	2.1 JB	
Barium (dissolved)	2,000	2,000	--	ug/L	NA	NA	NA	NA	NA	210	210	200	NA	NA	NA	NA	86	88	
Beryllium (dissolved)	4	4	--	ug/L	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.070 J	1 U	NA	NA	NA	0.38 JB	0.20 J	
Cadmium (dissolved)	5	5	--	ug/L	NA	NA	NA	NA	NA	1.0 U	0.080 JB	0.47 JB	0.5 U	NA	NA	NA	1.0 U	0.19 JB	
Chromium (dissolved)	100	100	11	ug/L	NA	NA	NA	NA	NA	1.6 JB	1.6 JB	2.3 B	5 U	NA	NA	NA	1.5 JB	1.7 JB	
Cobalt (dissolved)	40	100	100	ug/L	NA	NA	NA	NA	NA	1.3 B	1.2 B	1.3 B	5 U	NA	NA	NA	0.68 JB	0.66 J	
Copper (dissolved)	1,000	1,000	--	ug/L	NA	NA	NA	NA	NA	2.0 U	2.0 U	2.0 U	5 U	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	24,000 B	10,200	11,200	8,600 B	NA	15,000 B	16,000	
Lead (dissolved)	4	4	--	ug/L	NA	NA	NA	NA	NA	0.23 JB*	1.0 U	0.17 JB	3 U	NA	NA	NA	0.17 JB*	1.0 U	
Manganese (dissolved)	50	50	--	ug/L	NA	NA	NA	1,300 [1,300]	NA	670	670 ^	580	369	NA	720	NA	390	400	
Mercury (dissolved)	--	--	0.0013	ug/L	NA	NA	NA	NA	NA	0.20 U	0.20 U	0.00079	0.005 U	NA	NA	NA	0.20 U	0.20 U	
Nickel (dissolved)	100	100	--	ug/L	NA	NA	NA	NA	NA	3.2	2.7	3.0	5 U	NA	NA	NA	1.7 J	1.6 J	
Selenium (dissolved)	50	50	5	ug/L	NA	NA	NA	NA	NA	0.25 J	0.43 J	0.62 JB	5 U	NA	NA	NA	5.0 U	0.51 J	
Silver (dissolved)	34	98	0.2	ug/L	NA	NA	NA	NA	NA	1.0 U	1.0 U	0.020 JB	0.5 U	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	0.081 JB	2 U	NA	NA	NA	2.0 U*	2.0 U	
Vanadium (dissolved)	4.5	62	27	ug/L	NA	NA	NA	NA	NA	0.69 JB	0.84 JB	1.1 JB	5 U	NA	NA	NA	0.65 JB	0.66 JB	
Zinc (dissolved)	2,400	5,000	--	ug/L	NA	NA	NA	NA	NA	20 U	20 U	20 U	5 U	NA	NA	NA	20 U	20 U	
Miscellaneous																			
Alkalinity, total (as CaCO3)	--	--	--	ug/L	NA	NA	488	NA	NA	NA	NA	NA	NA	458	5.0 U	NA	NA	NA	
Hardness	--	--	--	ug/L	NA	NA	269	NA	NA	NA	NA	NA	NA	179	NA	NA	NA	NA	
pH (water)	--	--	--	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.22 H	NA	NA	NA	
Total Dissolved Solids	500,000	500,000	--	ug/L	NA	NA	726	NA	NA	NA	NA	NA	NA	728	620	NA	NA	NA	
Total Suspended Solids	--	--	--	ug/L	NA	NA	15	NA	NA	NA	NA	NA	NA	20	NA	NA	NA	NA	
Field																			

See Notes on last page.

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 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)	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)
Conductivity, field	--	--	--	mS/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity, field	--	--	--	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved oxygen (DO), field	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation reduction potential (ORP), field	--	--	--	millivolts	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, ambient	--	--	--	deg f	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, field	--	--	--	deg c	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity (field)	--	--	--	NTU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans																		
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
2,3,4,7,8-PeCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD	30	30	10	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
Total heptachlorodibenzofuran (HpCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
Total hexachlorodibenzofuran (HxCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
Total pentachlorodibenzofuran (PeCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
Total TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzofuran (TCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	TW-MD-05 05/20/15	TW-MD-05 12/20/16	TW-MD-05 12/20/16	TW-MD-05 04/24/17	TW-MD-05 05/25/17	TW-MD-06 08/01/14	TW-MD-06 09/09/14	TW-MD-06 02/25/15	TW-MD-06 04/01/15	TW-MD-06 05/20/15	TW-MD-06 04/24/17	TW-MD-06 05/25/17	TW-MD-06 08/17/17	TW-MD-07 07/30/14
					TW-MD-05_05202015	TWMD-05-GW-122016	TWMD-05-GW-122016DL	TW-MD-05_GW-042417	TW-MD-05_GW-052517	TW-MD-06(080114)	TW-MD-06_090914	TW-MD-06_02252015	TW-MD-06_04012015	TW-MD-06_05202015	TW-MD-06_GW-042417	TW-MD-06_GW-052517	TW-MD-06_GW-081717	TW-MD-07(073014)
PCBs																		
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	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	0.098 U	NA	NA	0.1 U [0.1 U]	NA	0.098 U	0.097 U	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	0.098 U	NA	NA	0.1 U [0.1 U]	NA	0.098 U	0.097 U	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	0.098 U	NA	NA	0.1 U [0.1]	NA	0.23	0.097 U	0.14	0.096 U	0.11	0.1	NA	NA	0.11 U
Aroclor-1248	0.5	0.5	0.2	ug/L	0.098 U	NA	NA	0.1 U [0.1 U]	NA	0.098 U	0.17	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	0.098 U	NA	NA	0.1 U [0.1 U]	NA	0.098 U	0.097 U	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	0.098 U	NA	NA	0.1 U [0.1 U]	NA	0.098 U	0.097 U	0.095 U	0.096 U	0.097 U	0.1 U	NA	NA	0.11 U
PCBs-Filtered																		
Aroclor-1016 (PCB-1016) (dissolved)	0.5	0.5	0.2	ug/L	0.095 U	NA	NA	NA	NA	NA	NA	NA	0.097 U	0.097 U	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	NA	0.097 U	0.097 U	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	NA	0.097 U	0.097 U	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	NA	0.097 U	0.097 U	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	NA	0.097 U	0.097 U	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	NA	0.097 U	0.097 U	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	NA	0.097 U	0.097 U	NA	NA	NA	NA
Volatile Organics																		
1,2,3-Trimethylbenzene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	260	750	19	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	2.6	11	2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	7.3	21	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	--	--	--	ug/L	NA	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	95	270	11,000	ug/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
Acetone	730	2,100	1,700	ug/L	NA	50 U	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA
Benzene	5	5	200	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
Bromobenzene	18	50	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	80	80	--	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
Bromoform	80	80	--	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
Bromomethane	10	29	35	ug/L	NA	5 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
2-Butanone	13,000	38,000	2,200	ug/L	NA	25 U	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	800	2,300	--	ug/L	NA	5 U	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	5	5	45	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
CFC-11	2,600	7,300	--	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
CFC-12	1,700	4,800	--	ug/L	NA	5 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	100	100	25	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
Chlorobromomethane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorodibromomethane	80	80	--	ug/L	NA	5 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
Chloroethane	430	1,700	1,100	ug/L	NA	5 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
Chloroform	80	80	350	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
Chloromethane	260	1,100	--	ug/L	NA	5 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	--	--	--	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
Cymene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	0.05	0.05	5.7	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
Dibromomethane	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	6.6	19	28	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	75	17	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	880	2,500	740	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	5	5	360	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	7	7	130	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	70	70	620	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	100	100	1,500	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
Dichloromethane	5	5	1,500	ug/L	NA	5 U	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	5	5	230	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	--	--	--	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	--	--	--	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
Diethyl Ether	10	10	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	7.2	350	2,800	ug/L	NA	NA	4 UB	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	74	74	18	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	800	2,300	28	ug/L	NA	1 U	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	--	--	--	ug/L	NA	10 U	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA
Methyl N-Butyl Ketone	1,000	2,900	--	ug/L	NA	50 U	NA	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	NA

See Notes on last page.

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	TW-MD-05 05/20/15	TW-MD-05 12/20/16	TW-MD-05 12/20/16	TW-MD-05 04/24/17	TW-MD-05 05/25/17	TW-MD-06 08/01/14	TW-MD-06 09/09/14	TW-MD-06 02/25/15	TW-MD-06 04/01/15	TW-MD-06 05/20/15	TW-MD-06 04/24/17	TW-MD-06 05/25/17	TW-MD-06 08/17/17	TW-MD-07 07/30/14
					TW-MD-05_05202015	TWMD-05-GW-122016	TWMD-05-GW-122016DL	TW-MD-05_GW-042417	TW-MD-05_GW-052517	TW-MD-06(080114)	TW-MD-06_090914	TW-MD-06_02252015	TW-MD-06_04012015	TW-MD-06_05202015	TW-MD-06_GW-042417	TW-MD-06_GW-052517	TW-MD-06_GW-081717	TW-MD-07(073014)
Methylcyclohexane	--	--	--	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	1,800	5,200	--	ug/L	NA	50 U	NA	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	40	40	7,100	ug/L	NA	5 U	NA	NA	NA	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA
Naphthalene	520	1,500	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	100	80	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
1,1,1,2-Tetrachloroethane	77	320	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	8.5	35	78	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	5	5	60	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
Toluene	790	790	270	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	89	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	5	5	330	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	5	5	200	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	42	120	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	170,000	170,000	32	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	63	63	17	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	72	72	45	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	2	2	13	ug/L	NA	1 U	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	NA
o-Xylene	--	--	--	ug/L	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	280	280	41	ug/L	NA	NA	NA	NA	NA	NA	2.0 U	NA	NA	NA	NA	NA	NA	NA
Semivolatiles Organics																		
1,1'-Biphenyl	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	9.6 U*	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	730	2,100	--	ug/L	NA	NA	NA	NA	NA	NA	48 U*	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	120	470	5	ug/L	NA	NA	NA	NA	NA	NA	38 U*	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	73	210	11	ug/L	NA	NA	NA	NA	NA	NA	96 U	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	370	1,000	380	ug/L	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	190 U*	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	7.7	32	--	ug/L	NA	NA	NA	NA	NA	NA	48 U*	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	48 U*	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	1,800	5,200	--	ug/L	NA	NA	NA	NA	NA	NA	48 U*	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	45	130	18	ug/L	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	260	750	19	ug/L	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	190 U*	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	20	58	--	ug/L	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	1.1	4.3	0.3	ug/L	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	190 U*	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	20	20	--	ug/L	NA	NA	NA	NA	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	150	420	7.4	ug/L	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	19 U	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	48 U*	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	190 U*	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	190 U*	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	1,300	3,800	38	ug/L	NA	NA	NA	NA	NA	NA	48 U*	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	52	150	--	ug/L	NA	NA	NA	NA	NA	NA	48 U*	NA	NA	NA	NA	NA	NA	NA
Acetophenone	1,500	4,400	--	ug/L	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA	NA	NA	NA	NA	NA
Anthracene	43	43	--	ug/L	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA	NA	NA	NA	NA
Atrazine	3	3	7.3	ug/L	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	9.6 U*	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	2.1	8.5	--	ug/L	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	5	5	--	ug/L	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	1.5	1.5	--	ug/L	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	1	1	--	ug/L	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1	1	--	ug/L	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	2	8.3	1	ug/L	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	6	6	25	ug/L	NA	NA	NA	NA	NA	NA	7.0 JB	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	1,200	2,700	67	ug/L	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA	NA	NA	NA	NA
Caprolactam	5,800	17,000	--	ug/L	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA	NA	NA	NA	NA
Carbazole	85	350	10	ug/L	NA	NA	NA	NA	NA	NA	96 U	NA	NA	NA	NA	NA	NA	NA
Chrysene	1.6	1.6	--	ug/L	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	2	2	--	ug/L	NA	NA	NA	NA	NA	NA	19 U	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	--	--	4	ug/L	NA	NA	NA	NA	NA	NA	38 U*	NA	NA	NA	NA	NA	NA	NA

See Notes on last page.

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

Location ID: Date Collected: Sample Name:	MDEQ	MDEQ	MDEQ	Units	TW-MD-05	TW-MD-05	TW-MD-05	TW-MD-05	TW-MD-05	TW-MD-06	TW-MD-06	TW-MD-06	TW-MD-06	TW-MD-06	TW-MD-06	TW-MD-06	TW-MD-06	TW-MD-07
	2013 Res	2013	2013		05/20/15	12/20/16	12/20/16	04/24/17	05/25/17	08/01/14	09/09/14	02/25/15	04/01/15	05/20/15	04/24/17	05/25/17	08/17/17	07/30/14
	DW	Non-Res	GSI		TW-MD-05_05202015	TWMD-05-GW-122016	TWMD-05-GW-122016DL	TW-MD-05_GW-042417	TW-MD-05_GW-052517	TW-MD-06(080114)	TW-MD-06_090914	TW-MD-06(02252015)	TW-MD-06(04012015)	TW-MD-06_05202015	TW-MD-06_GW-042417	TW-MD-06_GW-052517	TW-MD-06_GW-081717	TW-MD-07(073014)
Diethylphthalate	5,500	16,000	110	ug/L	NA	NA	NA	NA	NA	NA	48 U*	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	73,000	210,000	--	ug/L	NA	NA	NA	NA	NA	NA	48 U*	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	880	2,500	9.7	ug/L	NA	NA	NA	NA	NA	NA	1.8 JB	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	130	380	--	ug/L	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	210	210	1.6	ug/L	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA	NA	NA	NA	NA	NA
Fluorene	880	2,000	12	ug/L	NA	NA	NA	NA	NA	NA	48 U*	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	1	1	0.2	ug/L	NA	NA	NA	NA	NA	NA	1.9 U	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	50	50	--	ug/L	NA	NA	NA	NA	NA	NA	48 U*	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	7.3	21	6.7	ug/L	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	2	2	--	ug/L	NA	NA	NA	NA	NA	NA	19 U	NA	NA	NA	NA	NA	NA	NA
Isophorone	770	3,100	1,300	ug/L	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	3.4	9.6	180	ug/L	NA	NA	NA	NA	NA	NA	29 U	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	5	5	--	ug/L	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	270	1,100	--	ug/L	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	1	--	ug/L	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	52	150	2	ug/L	NA	NA	NA	NA	NA	NA	19 U	NA	NA	NA	NA	NA	NA	NA
Phenol	4,400	13,000	450	ug/L	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA	NA	NA	NA	NA
Pyrene	140	140	--	ug/L	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA	NA	NA	NA	NA
Hexachloro-1,3-Butadiene	15	42	0.053	ug/L	NA	NA	NA	NA	NA	NA	9.6 U	NA	NA	NA	NA	NA	NA	NA
Naphthalene	520	1,500	11	ug/L	NA	NA	NA	NA	NA	NA	48 U	NA	NA	NA	NA	NA	NA	NA
Inorganics																		
Antimony	6	6	130	ug/L	2.0 U	NA	NA	NA	NA	0.24 JB	NA	0.62 J	2.0 U	0.36 JB	NA	NA	NA	0.27 JB
Arsenic	10	10	10	ug/L	2.6 B	NA	NA	NA	NA	7.9 B	NA	5.6	4.8 B	7.6 B	NA	NA	NA	2.6 B
Barium	2,000	2,000	--	ug/L	86	NA	NA	NA	NA	160 B	NA	140	120	120	NA	NA	NA	230 B
Beryllium	4	4	--	ug/L	1.0 U	NA	NA	1 U [1 U]	NA	1.0 U	NA	0.24 J	0.18 J	0.87 J	1 U	NA	NA	1.0 U
Cadmium	5	5	--	ug/L	0.50 U	NA	NA	0.5 U [0.5 U]	NA	0.50 U	NA	0.51 B	0.19 JB	0.85 B	0.5 U	NA	NA	0.50 U
Calcium	--	--	--	ug/L	NA	NA	NA	53,800	NA	NA	NA	NA	NA	NA	NA	142,000	NA	NA
Chromium	100	100	11	ug/L	1.5 JB	NA	NA	5 U [5 U]	NA	0.48 JB	NA	1.2 J	1.5 JB	2.2 B	5 U	NA	NA	0.33 JB
Cobalt	40	100	100	ug/L	0.60 JB	NA	NA	5 U [5 U]	NA	0.85 J	NA	0.62 JB	0.50 J	0.79 JB	5 U	NA	NA	0.49 J
Copper	1,000	1,000	--	ug/L	2.0 U	NA	NA	5 U [5 U]	NA	1.1 JB	NA	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	3.3 J	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	300	--	ug/L	NA	NA	NA	13,900 [22,200]	12,600	NA	NA	NA	NA	NA	21,200	17,200	22,100	NA
Lead	4	4	--	ug/L	0.11 JB	NA	NA	3 U [3 U]	NA	1.1 B	NA	0.26 J	0.24 JB	0.50 JB	3 U	NA	NA	0.28 JB
Magnesium	400,000	1,100,000	--	ug/L	NA	NA	NA	NA	27,800	NA	NA	NA	NA	NA	NA	42,200	NA	NA
Manganese	50	50	--	ug/L	380	NA	NA	414 [807]	429	1,600	NA	1,300 B	1,600	1,200	738	634	NA	220
Mercury	2	2	0.0013	ug/L	0.20 U	NA	NA	0.1 U [0.1 U]	NA	0.20 U	NA	0.20 U	0.20 U	0.20 U	0.1 U	NA	NA	0.20 U
Nickel	100	100	--	ug/L	1.6 JB	NA	NA	5 U [5 U]	NA	2.9 B	NA	1.6 J	1.1 J	1.5 J	5 U	NA	NA	1.4 JB
Selenium	50	50	5	ug/L	0.28 J	NA	NA	5 U [5 U]	NA	0.56 J	NA	0.59 J	0.30 J	1.8 JB	5 U	NA	NA	0.56 J
Silver	34	98	0.2	ug/L	0.20 U	NA	NA	5 U [5 U]	NA	NA	NA	0.20 U	0.20 U	0.032 JB	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	0.19 J	1.0 U	0.55 JB	2 U	NA	NA	1.0 U
Vanadium	4.5	62	27	ug/L	1.7 JB	NA	NA	5 U [5 U]	NA	4.0 U	NA	0.66 J	0.61 JB	1.2 JB	5 U	NA	NA	4.0 U
Zinc	2,400	5,000	--	ug/L	10 U	NA	NA	5 U [5 U]	NA	2.1 JB	NA	10 U	10 U	10 U	5 U	NA	NA	10 U
Inorganics-Filtered																		
Antimony (dissolved)	6	6	130	ug/L	2.0 U	NA	NA	NA	NA	NA	NA	0.55 J	2.0 U	2.0 U	NA	NA	NA	NA
Arsenic (dissolved)	10	10	10	ug/L	2.6 JB	NA	NA	NA	NA	NA	NA	5.6	4.9 JB	6.5 B	NA	NA	NA	NA
Barium (dissolved)	2,000	2,000	--	ug/L	91	NA	NA	NA	NA	NA	NA	140	120	130	NA	NA	NA	NA
Beryllium (dissolved)	4	4	--	ug/L	1.0 U	NA	NA	1 U [1 U]	NA	NA	NA	0.56 J	0.11 J	0.15 J	1 U	NA	NA	NA
Cadmium (dissolved)	5	5	--	ug/L	1.0 U	NA	NA	0.5 U [0.5 U]	NA	NA	NA	0.81 JB	0.11 JB	0.52 JB	0.5 U	NA	NA	NA
Chromium (dissolved)	100	100	11	ug/L	1.5 JB	NA	NA	5 U [5 U]	NA	NA	NA	1.3 J	1.4 JB	2.6 B	5 U	NA	NA	NA
Cobalt (dissolved)	40	100	100	ug/L	0.62 JB	NA	NA	5 U [5 U]	NA	NA	NA	0.70 JB	0.52 J	0.64 JB	5 U	NA	NA	NA
Copper (dissolved)	1,000	1,000	--	ug/L	2.0 U	NA	NA	5 U [5 U]	NA	NA	NA	1.5 J	2.0 U	2.0 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	13,000	12,000	12,000 B	21,600	17,000	21,500	20,000 B
Lead (dissolved)	4	4	--	ug/L	1.0 U	NA	NA	3 U [3 U]	NA	NA	NA	0.32 J	1.0 U	0.17 JB	3 U	NA	NA	NA
Manganese (dissolved)	50	50	--	ug/L	390	NA	NA	419 [718]	NA	1,600	NA	1,300 B	1,500 ^	1,300	736	NA	NA	220
Mercury (dissolved)	--	--	0.0013	ug/L	0.0013	NA	NA	0.005 U	NA	NA	NA	0.20 U	0.20 U	0.00023 J	0.005 U	NA	NA	NA
Nickel (dissolved)	100	100	--	ug/L	1.6 JB	NA	NA	5 U [5 U]	NA	NA	NA	1.5 J	1.1 J	1.7 J	5 U	NA	NA	NA
Selenium (dissolved)	50	50	5	ug/L	5.0 U	NA	NA	5 U [5 U]	NA	NA	NA	0.80 J	0.30 J	0.79 JB	5 U	NA	NA	NA
Silver (dissolved)	34	98	0.2	ug/L	1.0 U	NA	NA	0.5 U [0.5 U]	NA	NA	NA	0.023 J	1.0 U	1.0 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	0.27 J	2.0 U	0.13 JB	2 U	NA	NA	NA
Vanadium (dissolved)	4.5	62	27	ug/L	1.5 JB	NA	NA	5 U [5 U]	NA	NA	NA	0.67 J	0.62 JB	1.3 JB	5 U	NA	NA	NA
Zinc (dissolved)	2,400	5,000	--	ug/L	20 U	NA	NA	5 U [5 U]	NA	NA	NA	20 U	20 U	20 U	5 U	NA	NA	NA
Miscellaneous																		
Alkalinity, total (as CaCO3)	--	--	--	ug/L	NA	NA	NA	NA	496	430	NA	NA	NA	NA	NA	452	NA	NA
Hardness	--	--	--	ug/L	NA	NA	NA	NA	244	NA	NA	NA	NA	NA	NA	524	NA	NA
pH (water)	--	--	--	none	NA	NA	NA	NA	NA	7.61	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	500,000	500,000	--	ug/L	NA	NA	NA	NA	696	910	NA	NA	NA	NA	NA	1,138	NA	NA
Total Suspended Solids	--	--	--	ug/L	NA	NA	NA	NA	17	NA	NA	NA	NA	NA	NA	34	NA	NA
Field																		

See Notes on last page.

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	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	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)
Conductivity, field	--	--	--	mS/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity, field	--	--	--	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved oxygen (DO), field	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation reduction potential (ORP), field	--	--	--	millivolts	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, ambient	--	--	--	deg f	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, field	--	--	--	deg c	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity (field)	--	--	--	NTU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxins/Furans																		
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDD	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
2,3,4,7,8-PeCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD	30	30	10	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
Total heptachlorodibenzofuran (HpCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
Total hexachlorodibenzofuran (HxCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
Total pentachlorodibenzofuran (PeCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA
Total TCDF	--	--	--	pg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total tetrachlorodibenzofuran (TCDF)	--	--	--	pg/L	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	Units	TW-MD-07 09/05/14 <small>TW-MD-07_090514</small>	TW-MD-07 02/25/15 <small>TW-MD-07_02252015</small>	TW-MD-07 04/01/15 <small>TW-MD-07_04012015</small>	TW-MD-07 05/20/15 <small>TW-MD-07_05202015</small>	TW-MD-07 12/20/16 <small>TWMD-07-GW-122016</small>	TW-MD-07 04/24/17 <small>TW-MD-07_GW-042417</small>	TW-MD-07 05/25/17 <small>TW-MD-07_GW-052517</small>
PCBs											
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
PCBs-Filtered											
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
Volatile Organics											
1,2,3-Trimethylbenzene	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	260	750	19	ug/L	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	2.6	11	2	ug/L	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	7.3	21	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	95	270	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	730	2,100	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	18	50	--	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	10	29	35	ug/L	1.0 U	NA	NA	NA	5 U	NA	NA
2-Butanone	13,000	38,000	2,200	ug/L	25 U	NA	NA	NA	25 U	NA	NA
n-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	80	230	--	ug/L	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	800	2,300	--	ug/L	5.0 U	NA	NA	NA	5 U	NA	NA
Carbon Tetrachloride	5	5	45	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
CFC-11	2,600	7,300	--	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
CFC-12	1,700	4,800	--	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	430	1,700	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	260	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	80	230	--	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	6.6	19	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
1,1-Dichloroethane	880	2,500	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	10	10	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	7.2	350	2,800	ug/L	NA	NA	NA	NA	3 U	NA	NA
Ethylbenzene	74	74	18	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
Isopropylbenzene	800	2,300	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	1,000	2,900	--	ug/L	50 U	NA	NA	NA	50 U	NA	NA

See Notes on last page.

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 RACER Trust
 Pontiac North Campus
 Pontiac, MI

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	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 TW-MD-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
Methylcyclohexane	--	--	--	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
4-Methyl-2-pentanone	1,800	5,200	--	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	520	1,500	11	ug/L	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	80	230	--	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	77	320	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	8.5	35	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	790	790	270	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
1,2,3-Trichlorobenzene	--	--	--	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	42	120	--	ug/L	NA	NA	NA	NA	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	170,000	170,000	32	ug/L	1.0 U	NA	NA	NA	1 U	NA	NA
1,2,4-Trimethylbenzene	63	63	17	ug/L	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	72	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
Semivolatile Organics											
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	730	2,100	--	ug/L	48 U	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	120	470	5	ug/L	38 U	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	73	210	11	ug/L	96 U	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	370	1,000	380	ug/L	48 U	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	--	--	--	ug/L	190 U	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	7.7	32	--	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	1,800	5,200	--	ug/L	48 U	NA	NA	NA	NA	NA	NA
2-Chlorophenol	45	130	18	ug/L	48 U	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	260	750	19	ug/L	48 U	NA	NA	NA	NA	NA	NA
2-Methylphenol	--	--	--	ug/L	48 U	NA	NA	NA	NA	NA	NA
2-Nitroaniline	--	--	--	ug/L	190 U	NA	NA	NA	NA	NA	NA
2-Nitrophenol	20	58	--	ug/L	48 U	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	1.1	4.3	0.3	ug/L	48 U	NA	NA	NA	NA	NA	NA
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	150	420	7.4	ug/L	48 U	NA	NA	NA	NA	NA	NA
4-Chloroaniline	--	--	--	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	1,300	3,800	38	ug/L	48 U	NA	NA	NA	NA	NA	NA
Acenaphthylene	52	150	--	ug/L	48 U	NA	NA	NA	NA	NA	NA
Acetophenone	1,500	4,400	--	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	2.1	8.5	--	ug/L	9.6 U	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	5	5	--	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	2	8.3	1	ug/L	9.6 U	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	6	6	25	ug/L	2.9 JB	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	1,200	2,700	67	ug/L	48 U	NA	NA	NA	NA	NA	NA
Caprolactam	5,800	17,000	--	ug/L	48 U	NA	NA	NA	NA	NA	NA
Carbazole	85	350	10	ug/L	96 U	NA	NA	NA	NA	NA	NA
Chrysene	1.6	1.6	--	ug/L	9.6 U	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	2	2	--	ug/L	19 U	NA	NA	NA	NA	NA	NA
Dibenzofuran	--	--	4	ug/L	38 U	NA	NA	NA	NA	NA	NA

See Notes on last page.

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	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 TW-MD-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
Diethylphthalate	5,500	16,000	110	ug/L	48 U	NA	NA	NA	NA	NA	NA
Dimethylphthalate	73,000	210,000	--	ug/L	48 U	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	880	2,500	9.7	ug/L	1.3 JB	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	130	380	--	ug/L	48 U	NA	NA	NA	NA	NA	NA
Fluoranthene	210	210	1.6	ug/L	9.6 U	NA	NA	NA	NA	NA	NA
Fluorene	880	2,000	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	7.3	21	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	770	3,100	1,300	ug/L	48 U	NA	NA	NA	NA	NA	NA
Nitrobenzene	3.4	9.6	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	270	1,100	--	ug/L	48 U	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	1	--	ug/L	48 U	NA	NA	NA	NA	NA	NA
Phenanthrene	52	150	2	ug/L	19 U	NA	NA	NA	NA	NA	NA
Phenol	4,400	13,000	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	15	42	0.053	ug/L	9.6 U	NA	NA	NA	NA	NA	NA
Naphthalene	520	1,500	11	ug/L	48 U	NA	NA	NA	NA	NA	NA
Inorganics											
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	--	ug/L	NA	280	280 [280]	280	NA	NA	NA
Beryllium	4	4	--	ug/L	NA	0.19 J	0.081 J [0.064 J]	0.071 J	NA	1 U	NA
Cadmium	5	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	40	100	100	ug/L	NA	0.54 JB	0.37 J [0.34 J]	0.50 JB	NA	5 U	NA
Copper	1,000	1,000	--	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	13,300	12,900	NA
Lead	4	4	--	ug/L	NA	0.21 J	1.0 U [1 U]	0.18 JB	NA	3 U	NA
Magnesium	400,000	1,100,000	--	ug/L	NA	NA	NA	NA	NA	NA	27,200
Manganese	50	50	--	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	100	100	--	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	34	98	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	4.5	62	27	ug/L	NA	0.54 J	0.63 JB [0.65 JB]	0.93 JB	NA	5 U	NA
Zinc	2,400	5,000	--	ug/L	NA	12	10 U [10 U]	10 U	NA	5 U	NA
Inorganics-Filtered											
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	--	ug/L	NA	280	270 [280]	280	NA	NA	NA
Beryllium (dissolved)	4	4	--	ug/L	NA	0.14 J	0.094 J [0.058 J]	0.072 J	NA	1 U	NA
Cadmium (dissolved)	5	5	--	ug/L	NA	0.30 JB	0.13 JB [0.14 JB]	0.41 JB	NA	0.5 U	NA
Chromium (dissolved)	100	100	11	ug/L	NA	1.2 J	1.4 JB [1.7 JB]	2.1 B	NA	5 U	NA
Cobalt (dissolved)	40	100	100	ug/L	NA	0.48 JB	0.37 J [0.37 J]	0.51 JB	NA	5 U	NA
Copper (dissolved)	1,000	1,000	--	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)	4	4	--	ug/L	NA	0.12 J	1.0 U [1 U]	0.13 JB	NA	3 U	NA
Manganese (dissolved)	50	50	--	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)	100	100	--	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)	34	98	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)	4.5	62	27	ug/L	NA	0.58 J	0.57 JB [0.71 JB]	0.96 JB	NA	5 U	NA
Zinc (dissolved)	2,400	5,000	--	ug/L	NA	20 U	20 U [20 U]	20 U	NA	13	NA
Miscellaneous											
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
Field											

See Notes on last page.

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

Location ID: Date Collected: Sample Name:	MDEQ 2013 Res DW	MDEQ 2013 Non-Res DW	MDEQ 2013 GSI	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 TWMMD-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
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
Dioxins/Furans											
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
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
Seep Area Monitoring Well Chemical Concentrations
RACER Trust
Pontiac North Campus
Pontiac, MI

Notes:

Bold values exceed residential drinking water criteria.
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 groundwater and soil cleanup criteria and screening levels dated Dec. 30, 2013. 1,4 Dioxane criteria was promulgated on October 20, 2017.
* Laboratory duplicate analysis was outside control limits.

Abbreviations:

B	Analyte was also detected in the associated method blank
deg c	Degree Celsius
deg f	Degree Fahrenheit
DW	Drinking water
GSI	Groundwater surface water interface
H	Parameter was analyzed out of holding time
J	Indicates an estimated value
mS/cm	Millisiemens per centimeter
NA	Not applicable
NTU	Nephelometric turbidity unit
PCBs	Polychlorinated biphenyls
pg/L	Picograms per liter
R	Rejected
U	The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
µg/L	Micrograms per liter
umhos/cm	Micromhos

Table 2
Soil Laboratory Analytical Results (INJ-01-17)
RACER Trust
Pontiac North Campus

Location ID: Sample Depth: Date Collected: Sample Name:	MDEQ 2013 Direct Contact Criteria	MDEQ 2013 Groundwater Surface Water Interface Protection Criteria	MDEQ 2013 Nonresidential Drinking Water Protection Criteria	MDEQ 2013 Soil Volatilization to Indoor Air Criteria	INJ-01-17 16-17* 10/17/17 INJ-01-17_(16-17)	INJ-01-17 20-21* 10/17/17 INJ-01-17_(20-21)
Volatile Organics						
Acetone	73,000,000	34,000	42,000	540,000,000	1,100 U	1,100 U
Benzene	840,000	4,000	100	8,400	70 U	70 U
Bromodichloromethane	490,000	--	1,600	6,400	70 U	70 U
Bromoform	3,800,000	--	1,600	770,000	70 U	70 U
Bromomethane	1,000,000	700	580	1,600	400 U	400 U
2-Butanone (MEK)	700,000,000	44,000	760,000	99,000,000	1,100 U	1,100 U
Carbon disulfide	43,000,000	--	46,000	140,000	400 U	400 U
Carbon tetrachloride	440,000	900	100	990	70 U	70 U
Chlorobenzene	14,000,000	500	2,000	220,000	70 U	70 U
Chloroethane	12,000,000	22,000	34,000	5,300,000	400 U	400 U
Chloroform	5,500,000	7,000	1,600	38,000	70 U	70 U
Chloromethane	7,400,000	--	22,000	10,000	400 U	400 U
Cyclohexane	--	--	--	--	70 U	70 U
1,2-Dibromo-3-chloropropane	20,000	--	10	1,200	70 U	70 U
Dibromochloromethane	500,000	--	1,600	21,000	70 U	70 U
1,2-Dibromoethane	430	110	20	3,600	70 U	70 U
1,2-Dichlorobenzene	63,000,000	280	14,000	20,000,000	70 U	70 U
1,3-Dichlorobenzene	660,000	680	480	48,000	70 U	70 U
1,4-Dichlorobenzene	1,900,000	360	1,700	100,000	70 U	70 U
Dichlorodifluoromethane	170,000,000	--	270,000	1,700,000	70 U	70 U
1,1-Dichloroethane	87,000,000	15,000	50,000	430,000	70 U	70 U
1,2-Dichloroethane	420,000	7,200	100	11,000	70 U	70 U
1,1-Dichloroethene	660,000	2600	140	330	70 U	70 U
trans-1,2-Dichloroethene	12,000,000	30,000	2,000	43,000	70 U	70 U
cis-1,2-Dichloroethene	8,000,000	12,000	1,400	41,000	70 U	70 U
1,2-Dichloropropane	660,000	4,600	100	7,400	70 U	70 U
cis-1,3-Dichloropropene	--	--	--	--	70 U	70 U
trans-1,3-Dichloropropene	--	--	--	--	70 U	70 U
Ethylbenzene	71,000,000	360	1,500	460,000	70 U	70 U
2-Hexanone (methyl butyl ketone)	100,000,000	--	58,000	1,800,000	4,000 U	4,000 U
Isopropylbenzene	80,000,000	3,200	260,000	730,000	70 U	70 U
Methyl Acetate	--	--	--	--	4,000 U	4,000 U
4-Methyl-2-pentanone (MIBK)	180,000,000	--	100,000	--	4,000 U	4,000 U
tert-Methyl butyl ether (MTBE)	7,100,000	140,000	800	18,000,000	400 U	400 U
Methyl cyclohexane	--	--	--	--	70 U	70 U
Methylene chloride	5,800,000	30,000	100	240,000	400 U	400 U
Styrene	1,900,000	2,100	2,700	1,300,000	70 U	70 U
1,1,1,2-Tetrachloroethane	240,000	1,600	700	23,000	70 U	70 U
Tetrachloroethene	930,000	1,200	100	21,000	70 U	70 U
Toluene	160,000,000	5,400	16,000	610,000	70 U	70 U
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1,000,000,000	1,700	9,000,000	9,300,000	100 U	100 U
1,2,4-Trichlorobenzene	5,800,000	5,900	4,200	18,000,000	100 U	100 U
1,1,1-Trichloroethane	1,000,000,000	1,800	4,000	460,000	70 U	70 U
1,1,2-Trichloroethane	840,000	6,600	100	24,000	70 U	70 U
Trichloroethene	660,000	4,000	100	1,900	70 U	70 U
Trichlorofluoromethane	260,000,000	--	150,000	5,100,000	100 U	100 U
Vinyl chloride	34,000	260	40	2,800	100 U	100 U
p,m-Xylene	1,000,000,000	820	5,600	--	100 U	100 U
o-Xylene	1,000,000,000	820	5,600	--	70 U	70 U
Semivolatile Organics						
Acenaphthene	130,000,000	8,700	880,000	350,000,000	330 U	330 U
Acenaphthylene	5,200,000	--	17,000	3,000,000	330 U	330 U
Anthracene	730,000,000	--	41,000	1,000,000,000	330 U	330 U

See Notes on last page.

Table 2
Soil Laboratory Analytical Results (INJ-01-17)
RACER Trust
Pontiac North Campus

Location ID: Sample Depth: Date Collected: Sample Name:	MDEQ 2013 Direct Contact Criteria	MDEQ 2013 Groundwater Surface Water Interface Protection Criteria	MDEQ 2013 Nonresidential Drinking Water Protection Criteria	MDEQ 2013 Soil Volatilization to Indoor Air Criteria	INJ-01-17 16-17* 10/17/17 INJ-01-17_(16-17)	INJ-01-17 20-21* 10/17/17 INJ-01-17_(20-21)
Benzo(a)anthracene	80,000	--	--	--	330 U	330 U
Benzo(b)fluoranthene	80,000	--	--	--	330 U	330 U
Benzo(k)fluoranthene	800,000	--	--	--	330 U	330 U
Benzo(ghi)perylene	7,000,000	--	--	--	330 U	330 U
Benzo(a)pyrene	8,000	--	--	--	330 U	330 U
4-Bromophenyl phenyl ether	--	--	--	--	330 U	330 U
Butyl benzyl phthalate	120,000,000	120,000	5,000,000	--	330 U	330 U
4-Chloro-3-methylphenol	15,000,000	280	16,000	--	280 U	280 U
2-Chloronaphthalene	180,000,000	--	1,800,000	--	330 U	330 U
4-Chloroaniline	--	--	--	--	330 U	330 U
bis(2-Chloroethoxy)methane	--	--	--	--	330 U	330 U
bis(2-Chloroethyl)ether	58,000	100	170	44,000	330 U	330 U
bis(2-Chloroisopropyl)ether	--	--	--	--	330 U	330 U
2-Chlorophenol	4,500,000	360	2,600	800,000	330 U	330 U
4-Chlorophenyl phenyl ether	--	--	--	--	330 U	330 U
Chrysene	8,000,000	--	--	--	330 U	330 U
p,m-Cresol (Methyphenols)	--	--	--	--	330 U	330 U
o-Cresol (2-Methyphenol)	--	--	--	--	330 U	330 U
Di-n-Butylphthalate	87,000,000	11,000	2,700,000	--	330 U	330 U
Di-n-Octylphthalate	20000000	--	290,000,000	--	330 U	330 U
Dibenzo(ah)anthracene	8000	--	--	--	330 U	330 U
Dibenzofuran	--	1,700	--	3,600,000	330 U	330 U
1,2-Dichlorobenzene	63,000,000	280	14,000	20,000,000	330 U	330 U
1,3-Dichlorobenzene	660,000	680	480	48,000	330 U	330 U
1,4-Dichlorobenzene	1,900,000	360	1,700	100,000	330 U	330 U
3,3'-Dichlorobenzidine	30,000	2,000	2,000	--	2,000 U	2,000 U
2,4-Dichlorophenol	3,900,000	330	4,200	--	330 U	330 U
Diethylphthalate	550,000,000	2200	320000	--	330 U	330 U
2,4-Dimethylphenol	36,000,000	7,600	20,000	--	330 U	330 U
Dimethylphthalate	1,000,000,000	--	4,200,000	--	330 U	330 U
4,6-Dinitro-2-methylphenol	260,000	--	830	--	830 U	830 U
2,4-Dinitrophenol	--	--	--	--	830 U	830 U
2,4-Dinitrotoluene	220,000	--	640	--	330 U	330 U
2,6-Dinitrotoluene	--	--	--	--	330 U	330 U
1,2-Diphenylhydrazine	--	--	--	--	330 U	330 U
bis(2-Ethylhexyl)phthalate	12,000,000	--	--	--	330 U	330 U
Fluoranthene	130,000,000	5,500	730,000	1,000,000,000	330 U	330 U
Fluorene	87,000,000	5,300	890,000	1,000,000,000	330 U	330 U
Hexachlorobenzene	37,000	350	1,800	220,000	330 U	330 U
Hexachlorobutadiene	470,000	91	72,000	710,000	330 U	330 U
Hexachlorocyclopentadiene	6,700,000	--	320,000	56,000	330 U	330 U
Hexachloroethane	730,000	1,800	1,200	79,000	330 U	330 U
Indeno(1,2,3-cd)pyrene	80,000	--	--	--	330 U	330 U
Isophorone	22,000,000	26,000	62,000	--	330 U	330 U
2-Methylnaphthalene	26,000,000	4,200	170,000	4,900,000	330 U	330 U
Naphthalene	52,000,000	730	100,000	470,000	330 U	330 U
2-Nitroaniline	--	--	--	--	330 U	330 U
3-Nitroaniline	--	--	--	--	830 U	830 U
4-Nitroaniline	--	--	--	--	830 U	830 U
Nitrobenzene	340,000	3,600	330	170,000	330 U	330 U
2-Nitrophenol	2,000,000	--	1,200	--	330 U	330 U
4-Nitrophenol	--	--	--	--	830 U	830 U
N-Nitrosodi-n-propylamine	5,400	--	330	--	330 U	330 U
N-Nitrosodiphenylamine	7,800,000	--	22,000	--	330 U	330 U
Pentachlorophenol	320,000	--	22	--	330 U	330 U

See Notes on last page.

Table 2
Soil Laboratory Analytical Results (INJ-01-17)
RACER Trust
Pontiac North Campus

Location ID: Sample Depth: Date Collected: Sample Name:	MDEQ 2013 Direct Contact Criteria	MDEQ 2013 Groundwater Surface Water Interface Protection Criteria	MDEQ 2013 Nonresidential Drinking Water Protection Criteria	MDEQ 2013 Soil Volatilization to Indoor Air Criteria	INJ-01-17 16-17' 10/17/17 INJ-01-17_(16-17)	INJ-01-17 20-21' 10/17/17 INJ-01-17_(20-21)
Phenanthrene	5,200,000	2,100	160,000	5,100,000	330 U	330 U
Phenol	230,000,000	9,000	260,000	--	330 U	330 U
Pyrene	84,000,000	--	480,000	1,000,000,000	330 U	330 U
1,2,4-Trichlorobenzene	5,800,000	5,900	4,200	18,000,000	330 U	330 U
2,4,5-Trichlorophenol	73,000,000	--	110,000	--	330 U	330 U
2,4,6-Trichlorophenol	3,300,000	330	9,400	--	330 U	330 U
Metals						
Antimony	670,000	94,000	4,300	--	500 U	500 U
Arsenic	37,000	4,600	4,600	--	4,030	2,520
Barium	130,000,000	--	1,300,000	--	34,700	15,100
Beryllium	1,600,000	--	51,000	--	260	200 U
Cadmium	2,100,000	--	6,000	--	220	200 U
Chromium (III)	1,000,000,000	--	1,000,000,000	--	8,440	3,230
Chromium (VI)	9,200,000	3,300	30,000	--	7,820	1,790
Cobalt	9,000,000	2,000	2,000	--	7,820	1,790
Copper	73,000,000	--	5,800,000	--	14,900	5,280
Lead	900,000	--	700,000	--	7,840	3,300
Manganese	90,000,000	--	1,000	--	361,000	563,000
Mercury	580,000	50	1,700	89,000	50 U	50 U
Nickel	150,000,000	--	100,000	--	17,000	6,990
Selenium	9,600,000	400	4,000	--	910	400 U
Silver	9,000,000	100	13,000	--	200 U	200 U
Thallium	130,000	4,200	2,300	--	200 U	200 U
Vanadium	5,500,000	430,000	990,000	--	12,300	4,080
Zinc	630,000,000	--	5,000,000	--	34,900	9,920
Organics -PCBs/Pesticides						
PCB-1016	--	--	--	--	330 U	330 U
PCB-1242	--	--	--	--	330 U	330 U
PCB-1221	--	--	--	--	330 U	330 U
PCB-1232	--	--	--	--	330 U	330 U
PCB-1248	--	--	--	--	330 U	330 U
PCB-1254	--	--	--	--	330 U	330 U
PCB-1260	--	--	--	--	330 U	330 U

Notes:

Criteria listed are from the the Michigan Department of Environmental Quality (MDEQ) Part 201 soil cleanup criteria and screening levels dated Dec. 30, 2013.

"-" indicates the compound was not listed in the MDEQ criteria

All units are measured in micrograms per kilogram.

Abbreviations:

µg/kg Microgram per kilogram

U Compound analyzed for but not detected above the detection limit

Table 3
Groundwater Laboratory Analytical Results
(INJ-01-17, MW-03-17, and MW-04-17)
RACER Trust
Pontiac North Campus

Location ID: Date Collected: Sample Name:	MDEQ 2013 Residential Drinking Water Criteria	MDEQ 2013 Non-Residential Drinking Water Criteria	MDEQ 2013 Residential Groundwater Volatilization to Indoor Air Inhalation Criteria	MDEQ 2013 Non Residential Groundwater Volatilization to Indoor Air Inhalation Criteria	MW-04-17 12/01/17 MW0417_120117	MW-03-17 12/01/17 MW0317_120117	INJ-01-17 12/01/17 INJ0117_120117
Volatile Organics							
Acetone	730	2,100	1,000,000,000	1,000,000,000	50 U	50 U	50 U
Benzene	5	5	5,600	35,000	1 U	1 U	1 U
Bromodichloromethane	80	80	4,800	37,000	1 U	1 U	1 U
Bromoform	80	80	470,000	3,100,000	1 U	1 U	1 U
Bromomethane	10	29	4,000	9,000	5 U	5 U	5 U
2-Butanone (MEK)	13,000	38,000	240,000,000	240,000,000	25 U	25 U	25 U
Carbon Disulfide	800	2,300	250,000	550,000	5 U	5 U	5 U
Carbon Tetrachloride	5	5	370	2,400	1 U	1 U	1 U
Chlorobenzene	100	100	210,000	470,000	1 U	1 U	1 U
Chloroethane	430	1,700	5,700,000	5,700,000	5 U	5 U	5 U
Chloroform	80	80	28,000	180,000	1 U	1 U	1 U
Chloromethane	260	1,100	8,600	45,000	5 U	5 U	5 U
Cyclohexane	--	--	--	--	1 U	1 U	1 U
1,2-Dibromo-3-chloropropane	0.2	0.2	220	1,200	5 U	5 U	5 U
Dibromochloromethane	80	80	14,000	110,000	5 U	5 U	5 U
1,2-Dibromoethane	0.05	0.05	2,400	15,000	1 U	1 U	1 U
1,2-Dichlorobenzene	600	600	160,000	160,000	1 U	1 U	1 U
1,3-Dichlorobenzene	6.6	19	18,000	41,000	1 U	1 U	1 U
1,4-Dichlorobenzene	75	75	16,000	74,000	1 U	1 U	1 U
Dichlorodifluoromethane	1,700	4,800	220,000	300,000	5 U	5 U	5 U
1,1-Dichloroethane	880	2,500	1,000,000	2,300,000	1 U	1 U	1 U
1,2-Dichloroethane	5	5	9,600	59,000	1 U	1 U	1 U
1,1-Dichloroethene	7	7	200	1,300	1 U	1 U	1 U
trans-1,2-Dichloroethene	100	100	85,000	200,000	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	70	93,000	210,000	1 U	1 U	1 U
1,2-Dichloropropane	5	5	16,000	36,000	1 U	1 U	1 U
cis-1,3-Dichloropropene	--	--	--	--	1 U	1 U	1 U
trans-1,3-Dichloropropene	--	--	--	--	1 U	1 U	1 U
Ethylbenzene	74	74	110,000	170,000	1 U	1 U	1 U
2-Hexanone (methyl butyl ketone)	1,000	2,900	4,200,000	8,700,000	50 U	50 U	50 U
Isopropylbenzene	800	2,300	56,000	56,000	1 U	1 U	1 U
Methyl acetate	--	--	--	--	10 U	10 U	10 U
4-Methyl-2-pentanone (MIBK)	1,800	5,200	20,000,000	20,000,000	50 U	50 U	50 U
Methyl tert-butyl ether (MTBE)	40	40	47,000,000	47,000,000	5 U	5 U	5 U
Methylcyclohexane	--	--	--	--	1 U	1 U	1 U
Methylene chloride	5	5	220,000	1,400,000	5 U	5 U	5 U
Styrene	100	100	170,000	310,000	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	8.5	35	12,000	77,000	1 U	1 U	1 U
Tetrachloroethene	5	5	25,000	170,000	1 U	1 U	1 U
Toluene	790	790	530,000	530,000	1 U	1 U	1 U
1,1,2-trichloro-1,2,2-trifluoroethane	170,000	170,000	170,000	170,000	1 U	1 U	1 U
1,2,4-Trichlorobenzene	70	70	300,000	300,000	5 U	5 U	5 U
1,1,1-Trichloroethane	200	200	660,000	1,300,000	1 U	1 U	1 U
1,1,2-Trichloroethane	5	5	17,000	110,000	1 U	1 U	1 U
Trichloroethene	5	5	2,200	4,900	1 U	1 U	1 U
Trichlorofluoromethane	2,600	7,300	1,100,000	1,100,000	1 U	1 U	1 U
Vinyl Chloride	2	2	1,100	13,000	1 U	1 U	1 U
m&p-Xylene	--	--	--	--	2 U	2 U	2 U
o-Xylene	--	--	--	--	1 U	1 U	1 U
Semivolatile Organics							
Acenaphthene	1,300	3,800	--	--	5 U	5 U	5 U
Acenaphthylene	52	150	--	--	5 U	5 U	5 U
Anthracene	43	43	--	--	5 U	5 U	5 U
Benzo(a)anthracene	2.1	8.5	--	--	1 U	1 U	1 U

See Notes on last page.

Table 3
Groundwater Laboratory Analytical Results
(INJ-01-17, MW-03-17, and MW-04-17)
RACER Trust
Pontiac North Campus

Location ID: Date Collected: Sample Name:	MDEQ 2013 Residential Drinking Water Criteria	MDEQ 2013 Non-Residential Drinking Water Criteria	MDEQ 2013 Residential Groundwater Volatilization to Indoor Air Inhalation Criteria	MDEQ 2013 Non Residential Groundwater Volatilization to Indoor Air Inhalation Criteria	MW-04-17 12/01/17 MW0417_120117	MW-03-17 12/01/17 MW0317_120117	INJ-01-17 12/01/17 INJ0117_120117
Benzo(b)fluoranthene	1.5	1.5	--	--	1 U	1 U	1 U
Benzo(k)fluoranthene	1	1	--	--	1 U	1 U	1 U
Benzo(g,h,i)perylene	1	1	--	--	1 U	1 U	1 U
Benzo(a)pyrene	5	5	--	--	1 U	1 U	1 U
4-Bromophenyl-phenylether	--	--	--	--	5 U	5 U	5 U
Butylbenzylphthalate	1,200	2,700	--	--	5 U	5 U	5 U
4-Chloro-3-Methylphenol	150	420	--	--	5 U	5 U	5 U
2-Chloronaphthalene	1,800	5,200	--	--	5 U	5 U	5 U
4-Chloroaniline	--	--	--	--	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	--	--	--	--	5 U	5 U	5 U
bis(2-Chloroethyl)ether	2	8.3	--	--	5 U	5 U	5 U
bis(2-Chloroisopropyl)ether	--	--	--	--	5 U	5 U	5 U
2-Chlorophenol	45	130	--	--	10 U	10 U	10 U
4-Chlorophenyl-phenylether	--	--	--	--	5 U	5 U	5 U
Chrysene	1.6	1.6	--	--	1 U	1 U	1 U
p,m-Cresol (Methylphenols)	--	--	--	--	20 U	20 U	20 U
o-Cresol (2-Methylphenol)	--	--	--	--	10 U	10 U	10 U
Di-n-Butylphthalate	880	2,500	--	--	5 U	5 U	5 U
Di-n-Octylphthalate	130	380	--	--	5 U	5 U	5 U
Dibenzo(a,h)anthracene	2	2	--	--	2 U	2 U	2 U
Dibenzofuran	--	--	--	--	4 U	4 U	4 U
1,2-Dichlorobenzene	600	600	160,000	160,000	1 U	1 U	1 U
1,3-Dichlorobenzene	6.6	19	18,000	41,000	1 U	1 U	1 U
1,4-Dichlorobenzene	75	75	16,000	74,000	1 U	1 U	1 U
3,3'-Dichlorobenzidine	1.1	4.3	--	--	5 U	5 U	5 U
2,4-Dichlorophenol	73	210	--	--	10 U	10 U	10 U
Diethylphthalate	5,500	16,000	--	--	5 U	5 U	5 U
2,4-Dimethylphenol	370	1,000	--	--	5 U	5 U	5 U
Dimethylphthalate	73,000	210,000	--	--	5 U	5 U	5 U
4,6-Dinitro-2-methylphenol	20	20	--	--	20 U	20 U	20 U
2,4-Dinitrophenol	--	--	--	--	25 U	25 U	25 U
2,4-Dinitrotoluene	7.7	32	--	--	5 U	5 U	5 U
2,6-Dinitrotoluene	--	--	--	--	5 U	5 U	5 U
1,2-Diphenylhydrazine	--	--	--	--	5 U	5 U	5 U
bis(2-Ethylhexyl)phthalate	6	6	--	--	5 U	5 U	5 U
Fluoranthene	210	210	--	--	1 U	1 U	1 U
Fluorene	880	2,000	--	--	5 U	5 U	5 U
Hexachlorobenzene	1	1	--	--	5 U	5 U	5 U
Hexachlorobutadiene	15	42	--	--	10 U	10 U	10 U
Hexachlorocyclopentadiene	50	50	--	--	5 U	5 U	5 U
Hexachloroethane	7.3	21	--	--	5 U	5 U	5 U
Indeno(1,2,3-cd)pyrene	2	2	--	--	2 U	2 U	2 U
Isophorone	770	3,100	--	--	5 U	5 U	5 U
2-Methylnaphthalene	260	750	--	--	5 U	5 U	5 U
Naphthalene	520	1,500	--	--	5 U	5 U	5 U
2-Nitroaniline	--	--	--	--	25 U	25 U	25 U
3-Nitroaniline	--	--	--	--	25 U	25 U	25 U
4-Nitroaniline	--	--	--	--	25 U	25 U	25 U
Nitrobenzene	3.4	9.6	--	--	5 U	5 U	5 U
2-Nitrophenol	20	58	--	--	5 U	5 U	5 U
4-Nitrophenol	--	--	--	--	25 U	25 U	25 U
N-Nitrosodi-n-propylamine	5	5	--	--	5 U	5 U	5 U
N-Nitrosodiphenylamine	270	1,100	--	--	5 U	5 U	5 U
Pentachlorophenol	1	1	--	--	5 U	5 U	5 U
Phenanthrene	52	150	--	--	2 U	2 U	2 U

See Notes on last page.

Table 3
Groundwater Laboratory Analytical Results
(INJ-01-17, MW-03-17, and MW-04-17)
RACER Trust
Pontiac North Campus

Location ID: Date Collected: Sample Name:	MDEQ 2013 Residential Drinking Water Criteria	MDEQ 2013 Non-Residential Drinking Water Criteria	MDEQ 2013 Residential Groundwater Volatilization to Indoor Air Inhalation Criteria	MDEQ 2013 Non Residential Groundwater Volatilization to Indoor Air Inhalation Criteria	MW-04-17 12/01/17 MW0417_120117	MW-03-17 12/01/17 MW0317_120117	INJ-01-17 12/01/17 INJ0117_120117
Phenol	4,400	13,000	--	--	5 U	5 U	5 U
Pyrene	140	140	--	--	5 U	5 U	5 U
1,2,4-Trichlorobenzene	70	70	300,000	300,000	5 U	5 U	5 U
2,4,5-Trichlorophenol	730	2,100	--	--	5 U	5 U	5 U
2,4,6-Trichlorophenol	120	470	--	--	4 U	4 U	4 U
Metals							
Antimony	6	6	--	--	5 U	5 U	5 U
Arsenic	10	10	--	--	2 U	2 U	2 U
Barium	2,000	2,000	--	--	58	50	48
Beryllium	4	4	--	--	1 U	1 U	1 U
Cadmium	5	5	--	--	0.5 U	0.5 U	0.5 U
Chromium	100	100	--	--	14	5 U	5 U
Cobalt	40	100	--	--	5 U	5 U	5 U
Copper	1,000	1,000	--	--	5 U	5 U	10
Lead	4	4	--	--	27	3 U	3 U
Manganese	50	50	--	--	530	480	475
Mercury	2	2	--	--	0.2 U	0.2 U	0.2 U
Nickel	100	100	--	--	5 U	5 U	5 U
Selenium	50	50	--	--	5 U	5 U	5 U
Silver	34	98	--	--	0.5 U	0.5 U	0.5 U
Thallium	2	2	--	--	2 U	2 U	2 U
Vanadium	4.5	62	--	--	5 U	5 U	5 U
Zinc	2,400	5,000	--	--	22	5 U	5 U
Inorganics							
Total Dissolved Solids	--	--	--	--	562,000	558,000	586,000
Total Suspended Solids	--	--	--	--	3,000	3,000 U	11,000

Notes:

Criteria listed are from the Michigan Department of Environmental Quality (MDEQ) Part 201 groundwater cleanup criteria and screening levels dated Dec. 30, 2013.

"-" indicates the compound was not listed in the MDEQ criteria.

All units are measured in micrograms per liter.

Abbreviations:

µg/L Micrograms per liter

U Compound analyzed for but not detected above the detection limit

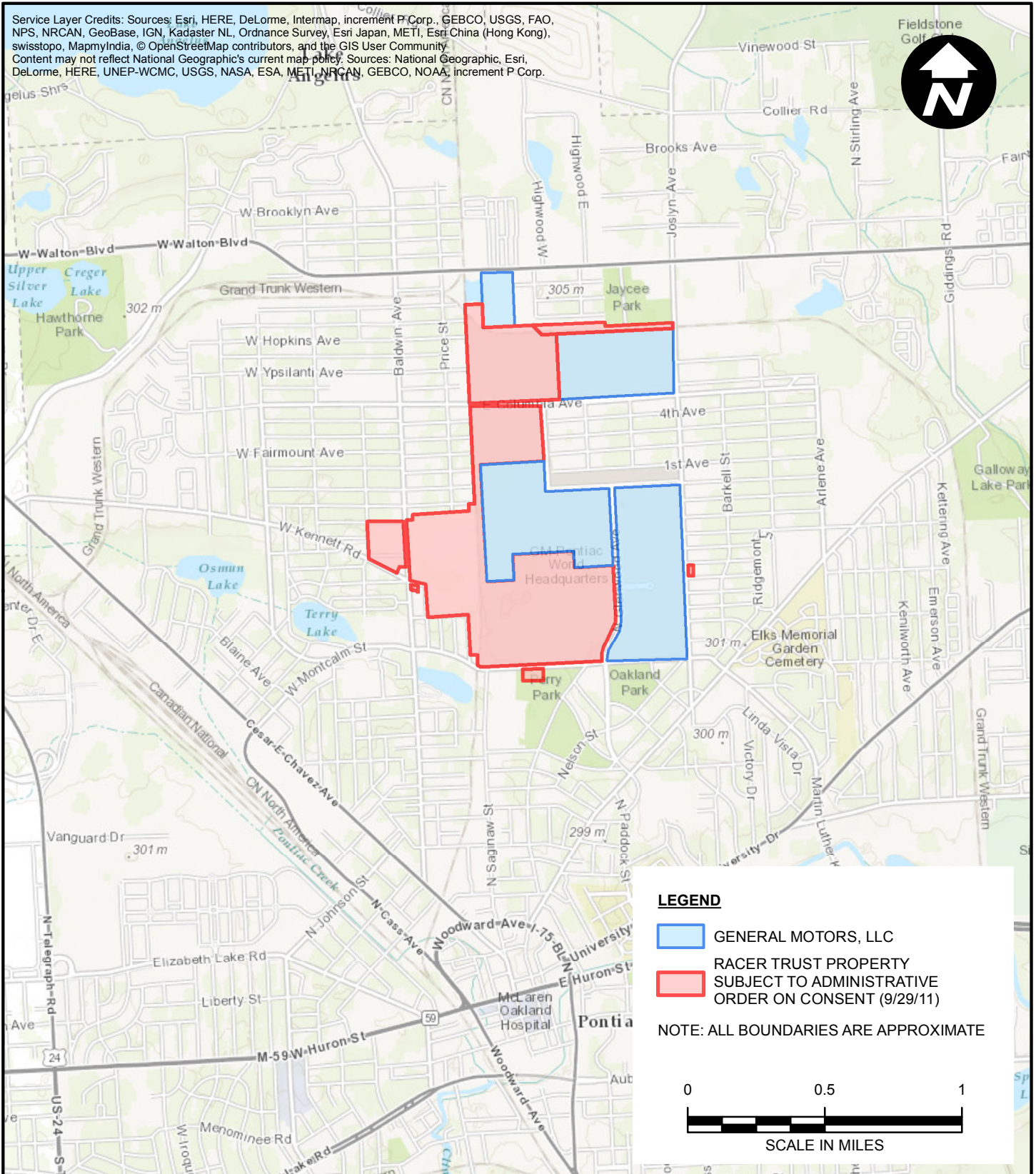
Table 4
Proposed Monitoring Well Network
RACER Trust
Pontiac North Campus
Pontiac, MI

Monitoring Well/Sampling Location	Purpose	Parameters	Frequency
INJ-01, INJ-02, MW-03-17, MW-04-17, TW-09-01, MWW5-01, Sump (Grab)	Monitoring injection location influence extent	Fluid level gauging (wells), water quality parameters (dissolved oxygen, pH, temperature, conductivity, oxidation reduction potential, total dissolved solids, iron, and hardness)	Baseline, 1x/month for first 3 months, semi-annually thereafter
		Geochemical analytical (calcium, iron, magnesium, manganese, alkalinity, hardness, dissolved solids, suspended solids), PCBs, volatile organics, inorganics	Baseline, 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	Baseline, semi-annually
MWW10-SEN02, MWW10-SEN03, MWW10-SEN04		Water quality parameters, geochemical analytical, PCBs, volatile organics, inorganics	Baseline, 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	Baseline, 1x/month for first 3 months, semi-annually thereafter
		Water quality parameters, geochemical analytical, PCBs, volatile organics, inorganics	Baseline, 1x/year

FIGURES



Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community
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 PONTIAC, MICHIGAN

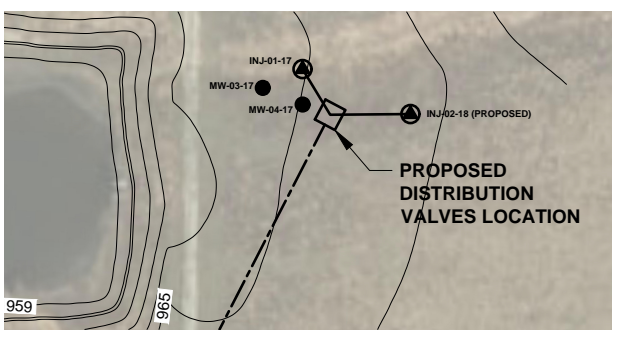
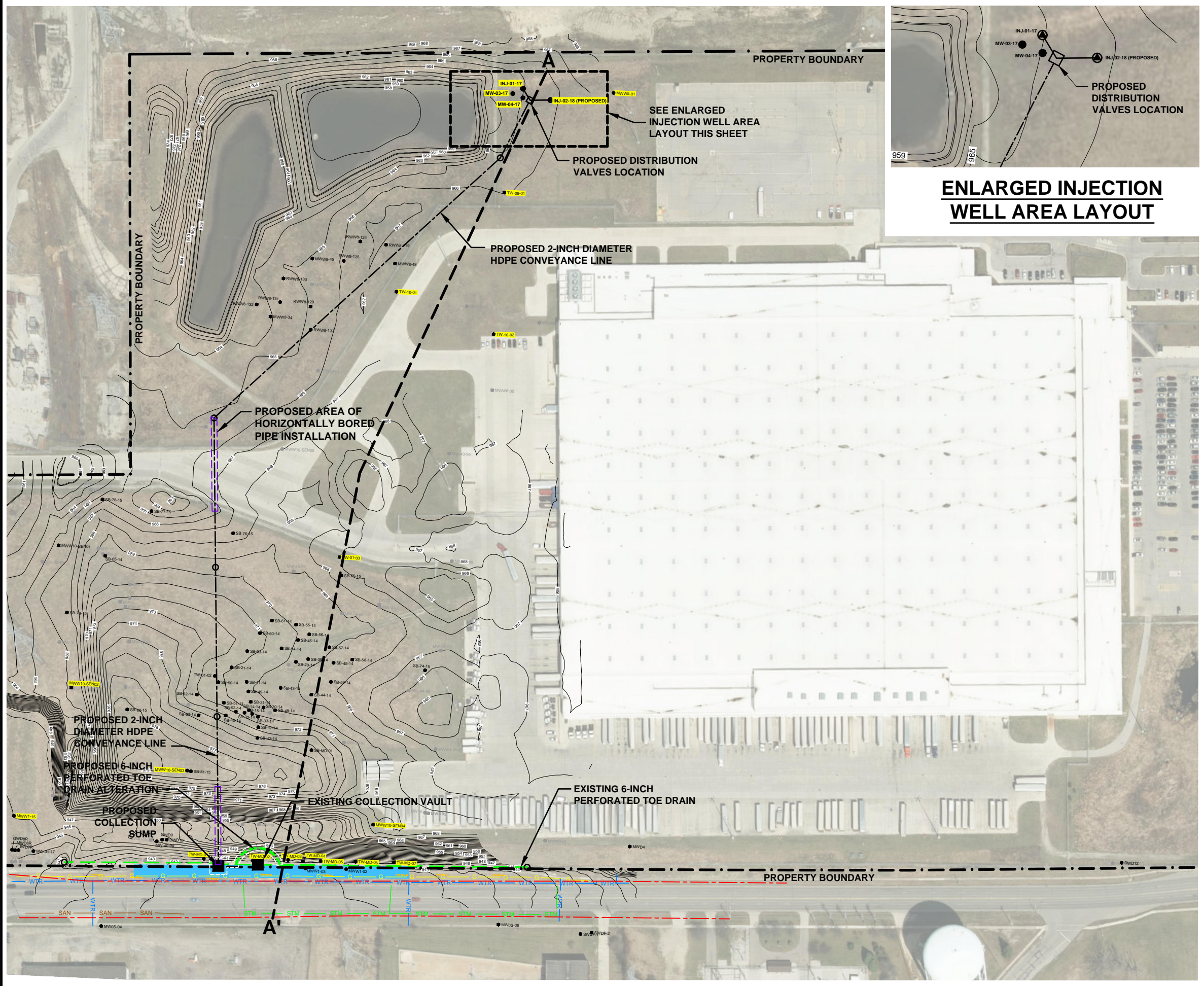
SITE LOCATION

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

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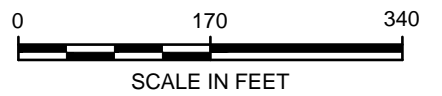


ENLARGED INJECTION WELL AREA LAYOUT

LEGEND

●	MONITORING WELL LOCATION
○	PROPOSED CLEAN OUT
⊙	INJECTION WELL
---	PROPOSED CONVEYANCE LINE
---	EXISTING PERFORATED TOE DRAIN
---	PROPOSED PERFORATED TOE DRAIN
---	PATH OF GEOLOGIC CROSS-SECTION
G	GAS MAIN
SAN	SANITARY SEWER
STM	STORM SEWER
WTR	WATER MAIN
---	OVERHEAD ELECTRICAL
---	PROPOSED AREA OF HORIZONTALLY BORED PIPE INSTALLATION
■	SEEP AREA

- NOTES**
1. MONITORING WELLS SHOWN ARE EXISTING. NOT ALL MONITORING WELLS ARE SHOWN DUE TO DENSITY. ALL LOCATIONS IN PROXIMITY OF THE PROPOSED CONVEYANCE PIPE AND WHICH ARE INCLUDED IN THE PROPOSED MONITORING WELL NETWORK HAVE BEEN DISPLAYED.
 2. GROUND SURFACE CONTOURS ARE APPROXIMATE.
 3. **HIGHLIGHTED** WELLS ARE PART OF THE PROPOSED MONITORING NETWORK.



RACER TRUST
PONTIAC NORTH CAMPUS
PONTIAC, MICHIGAN

SITE LAYOUT

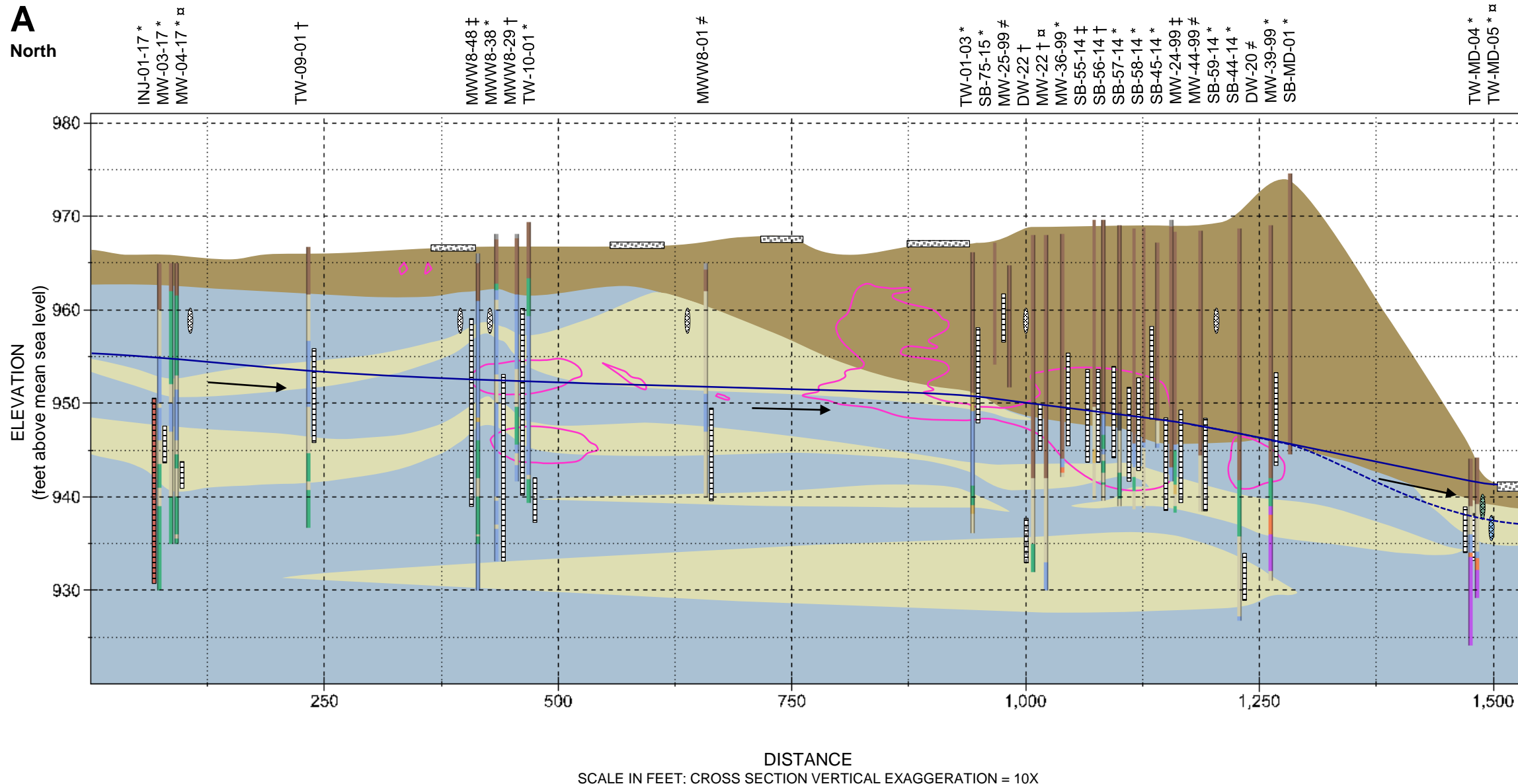
ARCADIS Design & Consultancy for natural and built assets

FIGURE 2



A
North

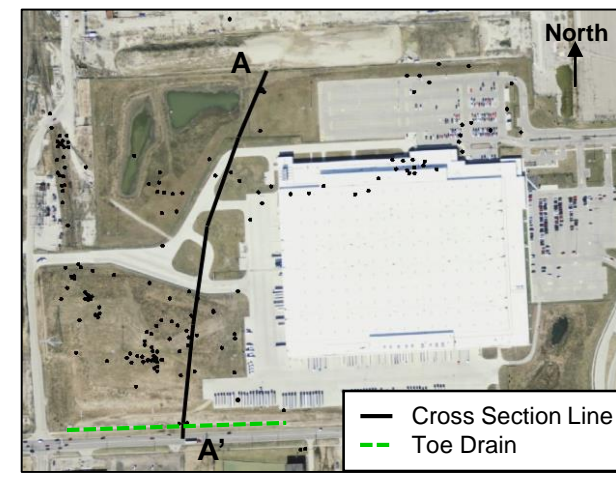
A'
South



- Legend**
- Groundwater Flow Direction
 - ▬ Injection Well (INJ-01-17)
 - ▬ Screened Interval
 - Storm Sewer (active)
 - Toe Drain (inactive/bulkheaded)
 - Water Main (active)
 - Interpreted LNAPL Boundary (refer to notes)
 - Current Potentiometric Surface
 - - - Projected Potentiometric Surface

Montcalm Street
 Existing 6-Inch Perforated Toe Drain
 Approximately 4 feet below grade
 12-Inch Water Main

Cross Section A-A' Top View



RACER TRUST
 PONTIAC, MICHIGAN
 PONTIAC NORTH CAMPUS

CROSS SECTION A-A'

General Lithology

- Concrete
- Fill Material
- Glacial Outwash Deposits
- Glaciolacustrine Deposits

Soil Boring Descriptions

- Concrete
- Fill Material
- No Recovery
- Sand
- Gravel
- Clay
- Silt
- Peat
- Marl

Notes:

- The x-axis represents a straight line distance. Soil borings and well screens encountered up to 125 feet either side of the line are projected on to the cross section
 - * - located 0-50 feet from cross section line
 - † - located >50-75 feet from cross section line
 - ‡ - located >75-100 feet from cross section line
 - ≠ - located >100-125 feet from cross section line; MWW8-01 is located approximately 150 feet from cross section line
 - □ - soil boring shifted to the south to prevent overlay with nearby borings projections
- Screened intervals are displayed adjacent to projected soil boring locations to prevent overlay
- Utility locations are approximate and are not to scale.
- LNAPL – Light non-aqueous phase liquid
- Interpreted LNAPL Boundary represents the approximate extents of measurable and/or residual LNAPL impacts on the cross section line based on detection of LNAPL in wells (with interface probe) and laser-induced fluorescence (LIF) response >25% RE.
- Current Potentiometric Surface is based on approximate current site conditions but does fluctuate seasonally and annually from approximately 0-3 feet.
- Projected Potentiometric Surface is represents estimated conditions with operation of the Montcalm seep reinjection system (full scale implementation of the Montcalm Seep IM Work Plan).

ATTACHMENTS



Date Start: 10/17/17
Date Finish: 10/18/17
Drilling Company: Stearns
Driller's Name: B. Marshal, B. Graham, Z. Galvanek
Drilling Method: Hand Auger, Sonic
Sampling Method: 5.0'/10.0' Core barrel, Continuous
Rig Type: Sonic
Water Level Start (ft. bgs.): 15.0
Water Level Finish (ft. btoc.):

Northing:
Easting:
Casing Elevation:
Borehole Depth (ft. bgs.): 35.0
Surface Elevation:
Descriptions By: Kaitlyn Voet

Well/Boring ID: INJ-01-17
Client: RACER
Location: RACER PNC
Weather Conditions: Sunny and windy, 60 F


DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0	0							(0.0 - 0.3') TOPSOIL, grass.		
3.3		1	0.0-5.0	HA				(0.3 - 5.0') SAND, fine to medium, subrounded; and SILT, medium plasticity, no dilatancy; some large pebbles to small cobbles, subrounded to subangular; poorly sorted; dry; dark brown (10YR 3/3). Note: Fill. Note: Slight to moderate odors and gray discoloration from 2.0-5.0' bgs. Note: Concrete and brick pieces from 2.5-5.0' bgs.		Backfill sand (0.6-4.5' bgs)
2.6										
8.3										
8.8										
6.9										
5	-5	2	5.0-10.0	2.75				(5.0 - 10.0') SAND, fine to medium, subrounded; and SILT, medium plasticity, slow to no dilatancy; trace granules, subangular; poorly sorted; dry; medium stiff; dark grayish brown (10YR 4/2).		4" sch 40 pvc (0.0-15.0' bgs) Neat Cement Seal (4.5-12.0' bgs)
0.0										
0.0										
0.1										
0.4										
10	-10							(10.0 - 15.0') CLAY, little silt, medium to low plasticity, rapid dilatancy; and SAND, very fine to fine, subangular; poorly sorted; moist; soft; very dark gray (10YR 3/1). Note: Medium stiff and black (10YR 2/1) from 12.0-13.0' bgs.		#6 Filter Pack sand (12.0-14.0' bgs)
1.1										
0.6										
0.6										
0.6										
15	-15	3	10.0-20.0	10.0				(15.0 - 15.5') SAND, medium, subrounded; little silt; well sorted; wet; dark gray (10YR 4/1). (15.5 - 19.0') CLAY, medium plasticity, slow dilatancy; some very fine sand, subrounded; moist to wet; soft; dark yellowish brown (10YR 4/4).	15.0	#5 Filter Pack sand (14.0-15.5' bgs) #6 Filter Pack sand (15.5-19.0' bgs)
0.8										
0.4										
0.4										
0.3										
0.3										

Remarks: bgs = below ground surface
 NA = not applicable
 btoc = below top of casing
 Hand auger to 5.0' bgs.
 Groundwater encountered at 15.0' bgs.



Date Start: 10/17/17 Date Finish: 10/18/17 Drilling Company: Stearns Driller's Name: B. Marshal, B. Graham, Z. Galvanek Drilling Method: Hand Auger, Sonic Sampling Method: 5.0'/10.0' Core barrel, Continuous Rig Type: Sonic Water Level Start (ft. bgs.): 15.0 Water Level Finish (ft. btoc.):	Northing: Easting: Casing Elevation: Borehole Depth (ft. bgs.): 35.0 Surface Elevation: Descriptions By: Kaitlyn Voet	Well/Boring ID: INJ-01-17 Client: RACER Location: RACER PNC Weather Conditions: Sunny and windy, 60 F
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DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
20	-20				0.3			(19.0 - 20.0') SAND, very fine to medium, subrounded; little silt; trace granules, subangular to subrounded; poorly sorted; moist to wet; dark yellowish brown (10YR 4/6).		<p>#5 Filter Pack sand (19.0-21.5' bgs)</p> <p>#6 Filter Pack sand (21.5-24.0' bgs)</p> <p>#5 Filter Pack sand (24.0-26.0' bgs)</p> <p>4" Stainless Steel, 10 slot screen (15.0-35.0' bgs)</p> <p>#6 Filter Pack sand (26.0-35.0' bgs)</p>
					0.1		(20.0 - 21.5') SAND, fine to coarse, subangular to subrounded; and PEBBLES, granule to large, subrounded; trace silt; poorly sorted; wet; dark yellowish brown (10YR 3/4).			
					0.1		(21.5 - 24.0') SILT, some clay, medium plasticity, no dilatancy; and SAND, very fine; poorly sorted; dry; very stiff; dark grayish brown (10YR 4/2).			
		4	20.0-30.0	10.0	0.0			(24.0 - 26.0') SAND, fine to medium, subrounded; little medium to large pebbles, subrounded; poorly sorted; wet; dark yellowish brown (10YR 3/4). Note: Small cobble, subrounded at 26.0' bgs.		
					0.0			(26.0 - 35.0') SILT, some clay, medium plasticity, no dilatancy; little very fine sand; poorly sorted; dry to moist; very dark gray (10YR 3/1).		
25	-25				0.0					
		5	30.0-35.0	5.0	0.0					
30	-30				0.0					
					0.0					
					0.0					
					0.0					
					0.0					
					0.0					
35	-35							End of boring at 35.0' bgs.		

	Remarks: bgs = below ground surface NA = not applicable btoc = below top of casing Hand auger to 5.0' bgs. Groundwater encountered at 15.0' bgs.
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Date Start: 10/18/17
Date Finish: 10/19/17
Drilling Company: Stearns
Driller's Name: B. Marshal, B. Graham, Z. Galvanek
Drilling Method: Hand Auger, Sonic
Sampling Method: 5.0'/10.0' Core barrel, Continuous
Rig Type: Sonic
Water Level Start (ft. bgs.): 13.0
Water Level Finish (ft. btoc.):

Northing:
Easting:
Casing Elevation:
Borehole Depth (ft. bgs.): 30.0
Surface Elevation:
Descriptions By: Kaitlyn Voet

Well/Boring ID: MW-03-17
Client: RACER
Location: RACER PNC
Weather Conditions: Sunny, 65 F

DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0	0							(0.0 - 0.3') TOPSOIL, grass.		
6.2								(0.3 - 1.0') SILT; and SAND, very fine, subrounded; poorly sorted; moist; dark brown (10YR 3/3).		Backfill sand (0.5-1.5' bgs)
8.8								(1.0 - 2.0') SAND, very fine to fine, subrounded; some silt; poorly sorted; moist; dark yellowish brown (10YR 3/4).		
40.2		1	0.0-6.5	HA				(2.0 - 3.0') SAND, very fine, subrounded; well sorted; moist; dark gray (10YR 4/1). Note: Moderate odors from 2.0-6.0' bgs.		
27.0								(3.0 - 13.0') SILT, low plasticity to nonplastic, slow to no dilatancy; and SAND, very fine, subrounded; moist; soft; very dark grayish brown (10YR 3/2).		
19.8								Note: Slight odors from 6.0-9.0' bgs.		
27.0										
0.9										
1.2		2	6.5-10.0	3.5						Bentonite slurry (1.5-14.0' bgs)
3.0										2" sch 40 pvc (0.4-18.0' bgs)
1.0										
1.0								Note: Transition to black (10YR 2/1) from 9.8-10.0' and 11.0-12.0' bgs.		
1.5										
0.7										
0.7								(13.0 - 15.0') SAND, fine to medium, subrounded; little to trace silt; trace small pebbles, subrounded; poorly sorted; wet; very dark gray (10YR 3/1).		
1.6										
1.0		3	10.0-20.0	8.3				(15.0 - 18.0') CLAY, medium plasticity, slow dilatancy; some very fine sand; moist to wet; soft; very dark grayish brown (10YR 3/2). Note: Transition to dark yellowish brown (10YR 4/4), and very soft, from 17.0-18.0' bgs.		Bentonite chips (14.0-16.0' bgs)
0.9										
0.7										#6 Filter Pack sand (16.0-17.0' bgs)
0.5								(18.0 - 20.0') SAND, very fine to fine, subangular to subrounded; well sorted; wet; dark yellowish brown (10YR 4/6).		

Remarks: bgs = below ground surface
 NA = not applicable
 btoc = below top of casing
 Hand auger to 6.5' bgs.
 Groundwater encountered at 13.0' bgs.



Date Start: 10/18/17 Date Finish: 10/19/17 Drilling Company: Stearns Driller's Name: B. Marshal, B. Graham, Z. Galvanek Drilling Method: Hand Auger, Sonic Sampling Method: 5.0'/10.0' Core barrel, Continuous Rig Type: Sonic Water Level Start (ft. bgs.): 13.0 Water Level Finish (ft. btoc.):	Northing: Easting: Casing Elevation: Borehole Depth (ft. bgs.): 30.0 Surface Elevation: Descriptions By: Kaitlyn Voet	Well/Boring ID: MW-03-17 Client: RACER Location: RACER PNC Weather Conditions: Sunny, 65 F
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DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headpace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
20	-20				0.5			Note: Medium to large pebbles, subrounded from 19.5-20.0' bgs.		<p>#5 Filter Pack sand (17.0-23.0' bgs) 2" 10 slot PVC screen (18.0-22.0' bgs) Bentonite chips (23.0-30.0' bgs)</p>
					0.2	X		(20.0 - 22.5') SAND, medium to coarse, subrounded; and PEBBLES, small to very large, subrounded; some granules, subrounded; poorly sorted; wet; dark yellowish brown (10YR 4/6).		
					0.3			(22.5 - 23.1') SAND, very fine, subrounded; and SILT, nonplastic, slow to rapid dilatancy; poorly sorted; moist to wet; very dark grayish brown (10YR 3/2).		
					0.3			(23.1 - 25.0') SAND, fine to medium, subrounded; well sorted; wet; dark yellowish brown (10YR 4/6). Note: Little silt from 23.1-24.5' bgs.		
25	-25	4	20.0-30.0	10.0	0.3			(25.0 - 30.0') SILT, some clay, medium plasticity, no dilatancy; little very fine sand, subrounded; poorly sorted; dry to moist; very dark gray (10YR 3/1). Note: and SAND, very fine to fine, subrounded; from 26.2-26.3', 27.3-27.4', and 29.0-29.3' bgs.		
					0.3					
30	-30				0.3			End of boring at 30.0' bgs.		
35	-35									

	Remarks: bgs = below ground surface NA = not applicable btoc = below top of casing Hand auger to 6.5' bgs. Groundwater encountered at 13.0' bgs.
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Date Start: 10/18/17
Date Finish: 10/19/17
Drilling Company: Stearns
Driller's Name: B. Marshal, B. Graham, Z. Galvanek
Drilling Method: Hand Auger, Sonic
Sampling Method: 5.0'/10.0' Core barrel, Continuous
Rig Type: Sonic
Water Level Start (ft. bgs.): 12.0
Water Level Finish (ft. btoc.):

Northing:
Easting:
Casing Elevation:
Borehole Depth (ft. bgs.): 30.0
Surface Elevation:
Descriptions By: Kaitlyn Voet


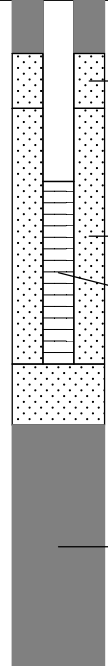








Well/Boring ID: MW-04-17
Client: RACER
Location: RACER PNC
Weather Conditions: Sunny, 65 F


DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0	0							(0.0 - 0.3') TOPSOIL, grass.		
1.7								(0.3 - 2.0') SILT; some sand, very fine to fine, subrounded; little small to large pebbles, subrounded; poorly sorted; moist; dark brown (10YR 3/3).		Backfill sand (0.5-1.5' bgs)
6.5								(2.0 - 3.0') SAND, fine, subrounded; some silt; poorly sorted; moist; dark brown (10YR 3/3).		
16.3								Note: Slight odors from 2.0-6.0' bgs.		
15.1		1	0.0-6.5	HA				(3.0 - 3.5') SAND, very fine to fine, subrounded; and SILT; poorly sorted; moist; dark brown (10YR 3/3).		
18.0								(3.5 - 6.5') SILT, medium plasticity, slow to no dilatancy; some very fine to fine sand, subrounded; poorly sorted; moist; soft; very dark grayish brown (10YR 3/2).		
10.4										
3.8								(6.5 - 12.0') SILT, medium plasticity, slow to no dilatancy; and SAND, fine, subrounded; trace granules, subrounded; poorly sorted; moist; medium stiff; very dark gray (10YR 3/1).		
1.7		2	6.5-10.0	2.3						
1.5										
7.1										
0.4										
0.3										
2.6								(12.0 - 13.5') SAND, fine to medium, subrounded; trace silt; little granules to small pebbles, subrounded; poorly sorted; wet; dark grayish brown (10YR 4/2).		
1.6										
0.9								(13.5 - 15.0') CLAY, medium plasticity, slow dilatancy; little very fine sand, subrounded; moist; medium stiff to stiff; olive (5Y 4/3).		Bentonite slurry (1.5-18.0' bgs)
0.8								(15.0 - 17.0') CLAY, low plasticity, slow dilatancy; and SILT; trace very fine sand; trace small to large pebbles, subrounded; moist to wet; soft to medium stiff; very dark gray (10YR 3/1).		2" sch 40 pvc (0.4-22.0' bgs)
0.7		3	10.0-20.0	7.9						
0.7								(17.0 - 19.0') CLAY, low plasticity to nonplastic, slow dilatancy; and SAND, very fine; moist to wet; soft; brown (10YR 5/3).		
0.6										
										Bentonite chips

Remarks: bgs = below ground surface
 NA = not applicable
 btoc = below top of casing
 Hand auger to 6.5' bgs.
 Groundwater encountered at 12.0' bgs.



Date Start: 10/18/17 Date Finish: 10/19/17 Drilling Company: Stearns Driller's Name: B. Marshal, B. Graham, Z. Galvanek Drilling Method: Hand Auger, Sonic Sampling Method: 5.0'/10.0' Core barrel, Continuous Rig Type: Sonic Water Level Start (ft. bgs.): 12.0 Water Level Finish (ft. btoc.):	Northing: Easting: Casing Elevation: Borehole Depth (ft. bgs.): 30.0 Surface Elevation: Descriptions By: Kaitlyn Voet	Well/Boring ID: MW-04-17 Client: RACER Location: RACER PNC Weather Conditions: Sunny, 65 F
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DEPTH (feet bgs.)	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
20	-20				0.5			(19.0 - 20.5') SAND, fine to medium, trace coarse, subrounded; and PEBBLES, small to medium, subrounded; poorly sorted; moist to wet; dark yellowish brown (10YR 4/6).		 <p>(18.0-19.9' bgs)</p> <p>#6 Filter Pack sand (19.9-20.8' bgs)</p> <p>#5 Filter Pack sand (20.8-26.0' bgs)</p> <p>2" 10 slot PVC screen (22.0-25.0' bgs)</p> <p>Bentonite chips (26.0-30.0' bgs)</p>
					0.3			(20.5 - 22.0') SILT; trace very fine sand; trace small pebbles, subrounded; dry; very stiff; dark yellowish brown (10YR 4/4). Note: Transition to dark grayish brown(10YR 4/2) from 21.0-22.0' bgs.		
					0.3			(22.0 - 23.5') SAND, fine, subrounded; well sorted; wet; dark yellowish brown (10YR 4/4).		
					0.3			(23.5 - 25.0') SAND, fine to medium, little coarse, subrounded; and PEBBLES, small to large, subrounded; poorly sorted; wet; dark yellowish brown (10YR 4/6).		
25	-25	4	20.0-30.0	10.0	0.3			(25.0 - 29.0') SILT, some clay, medium plasticity, no dilatancy; little very fine sand; trace small to large pebbles, subrounded; poorly sorted; dry to moist; medium stiff to stiff; very dark gray (10YR 3/1).		
					0.3					
					0.3					
					0.2			(29.0 - 29.5') SAND, very fine, subrounded; little to trace silt; well sorted; wet; very dark gray (10YR 3/1).		
					0.3			(29.5 - 30.0') SILT, some clay, medium plasticity, no dilatancy; little very fine sand; trace small to large pebbles, subrounded; poorly sorted; dry to moist; medium stiff; very dark gray (10YR 3/1).		
30	-30							End of boring at 30.0' bgs.		
35	-35									

	Remarks: bgs = below ground surface NA = not applicable btoc = below top of casing Hand auger to 6.5' bgs. Groundwater encountered at 12.0' bgs.
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